

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P383498

Luminaire Tested: **GLEON-SA8A-735-U-AFL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383498  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA8A-735-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35694.1 lumens  
Efficiency: N/A  
Efficacy: 138.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

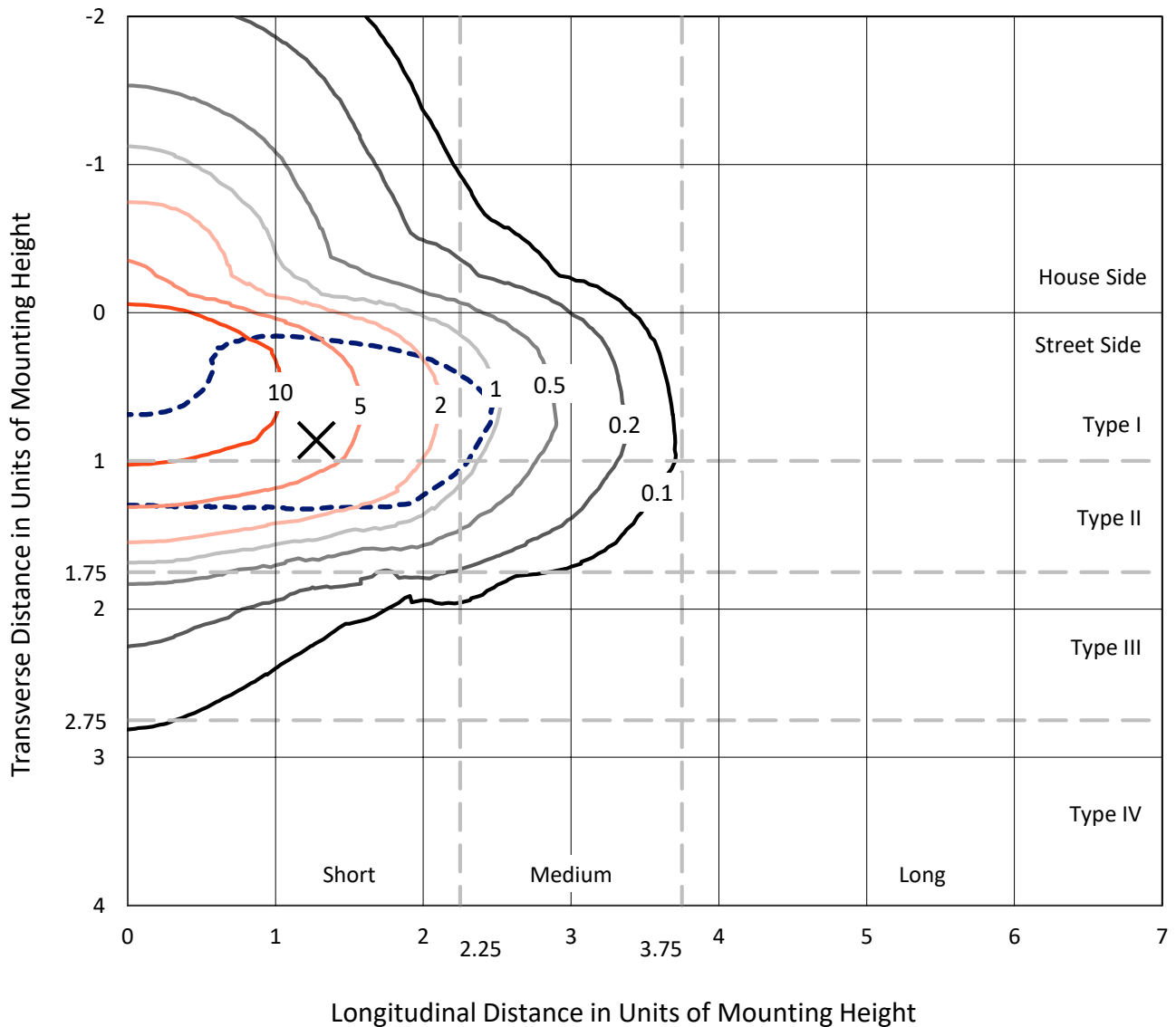
Input Watts (W): 257  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

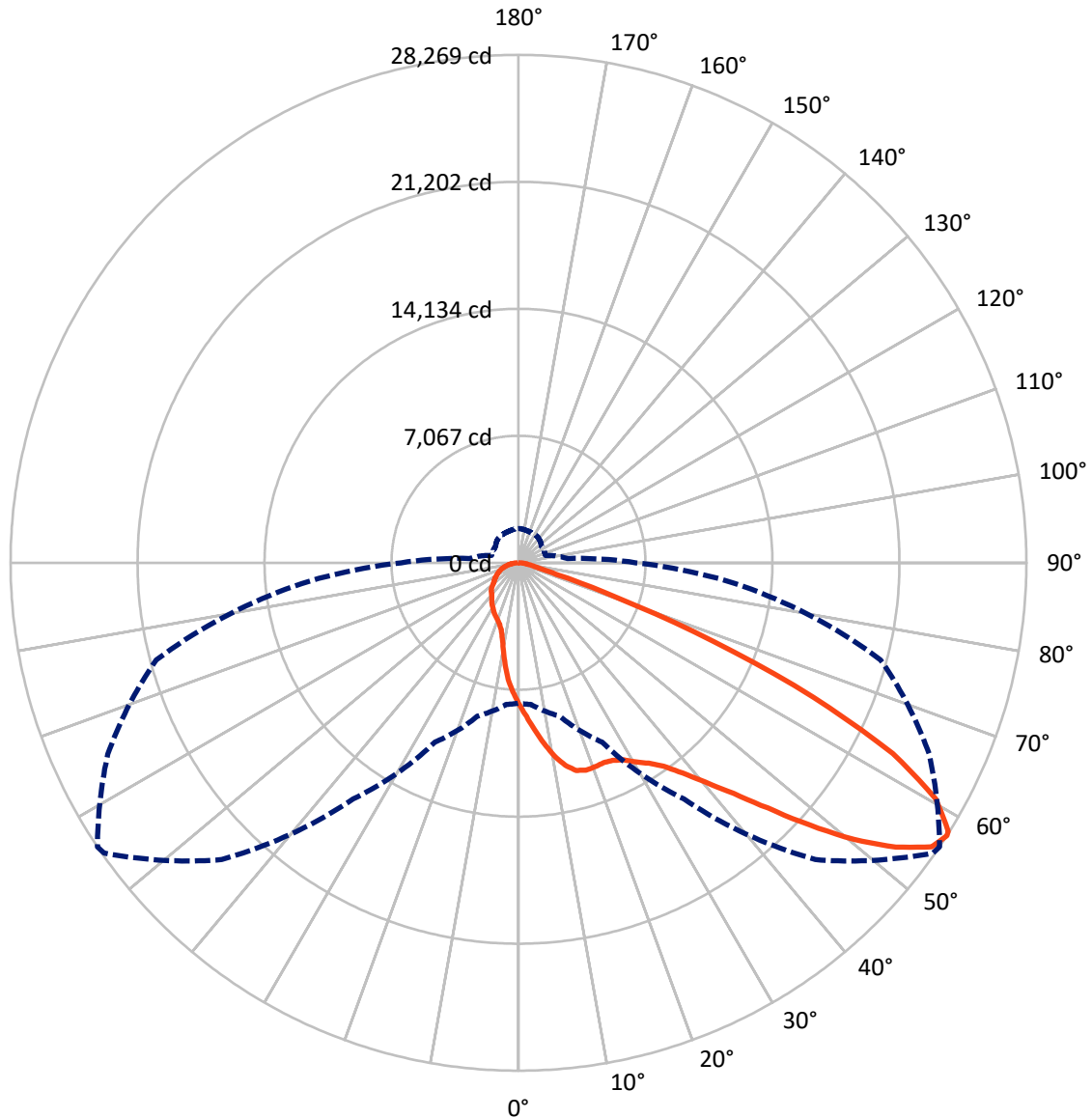
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 57-Deg Vertical

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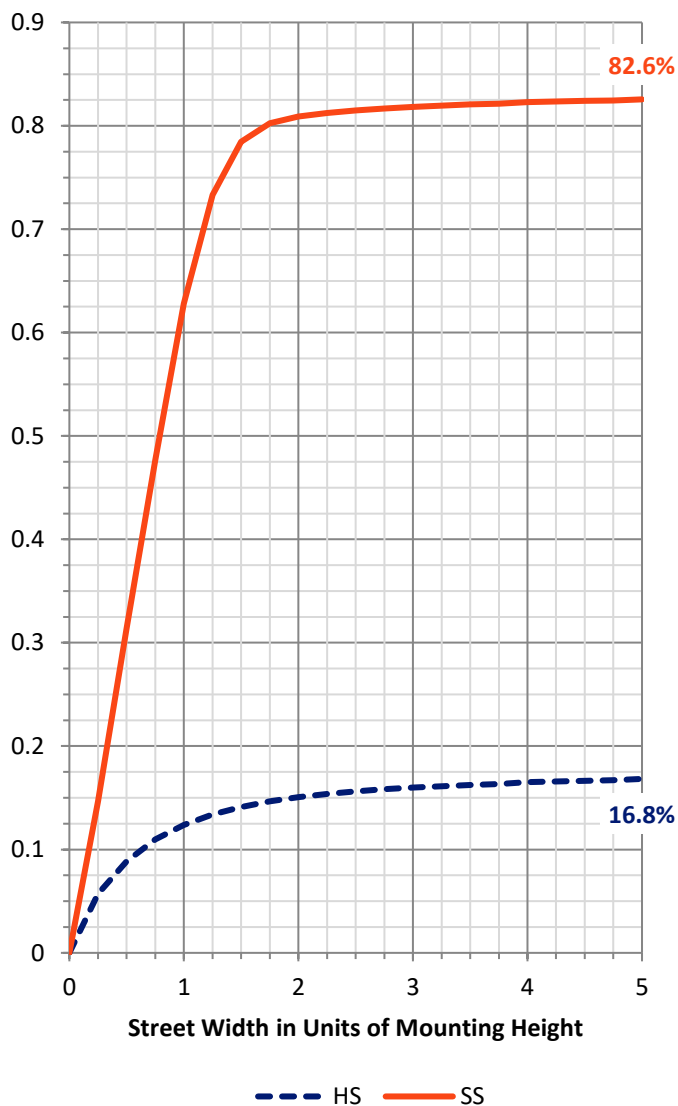
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6152.9	0.0	6152.9
	% Fixture	17.2	0.0	17.2
<b>Street Side</b>	Lumens	29541.2	0.0	29541.2
	% Fixture	82.8	0.0	82.8
<b>Total</b>	Lumens	35694.1	0.0	35694.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	756.3	2.1
10°-20°	2138.1	6.0
20°-30°	3482.6	9.8
30°-40°	5206.2	14.6
40°-50°	7896.6	22.1
50°-60°	8850.7	24.8
60°-70°	5227.6	14.6
70°-80°	1712.8	4.8
80°-90°	423.2	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	35694.1	100.0
0°-180°	35694.1	100.0

**Coefficient of Utilization**

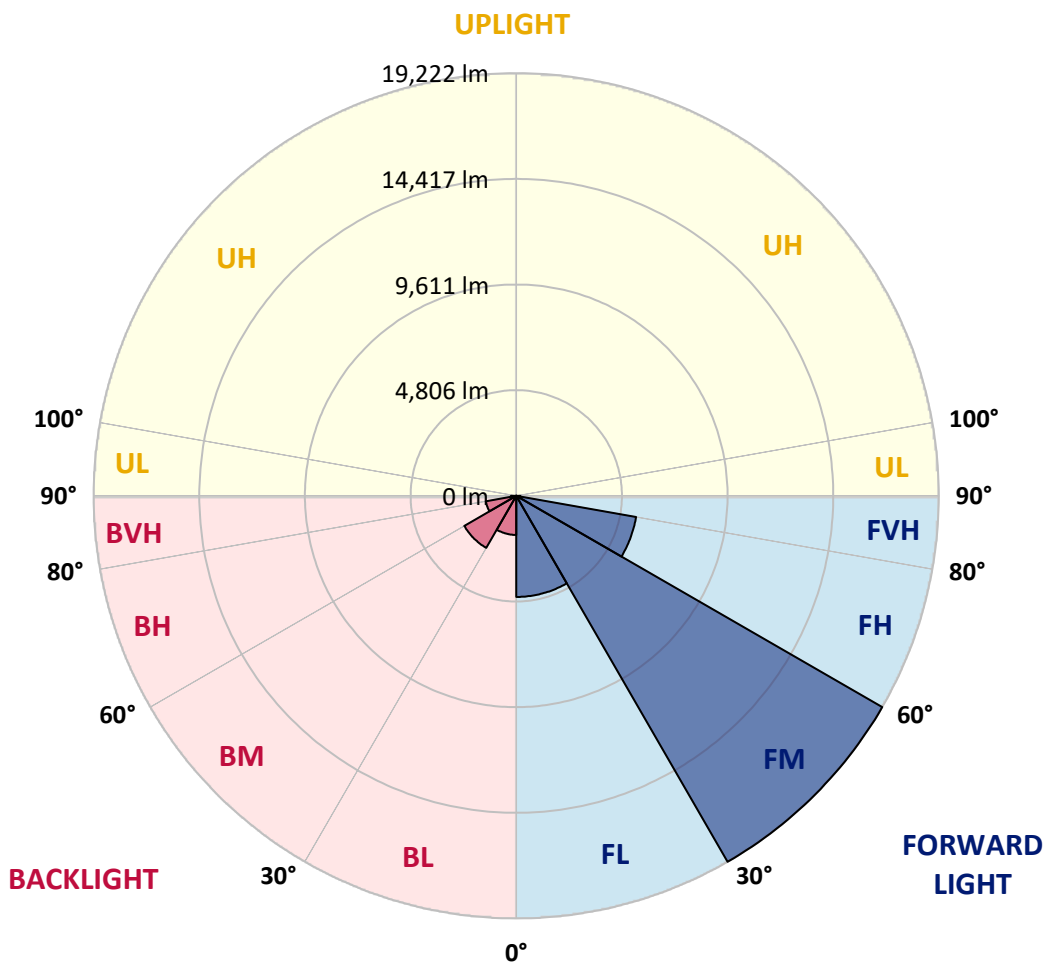


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4597.9	12.9			
FM (30°-60°)	19222.5	53.9			
FH (60°-80°)	5534.5	15.5			G3/7500
FVH (80°-90°)	186.3	0.5			G2/225
BL (0°-30°)	1779.1	5.0	B3/2500		
BM (30°-60°)	2731.1	7.7	B3/5000		
BH (60°-80°)	1405.9	3.9	B3/2500		G3/2500
BVH (80°-90°)	236.8	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	7916.9	7916.9	7916.9	7916.9	7916.9	7916.9	7916.9	7916.9	7916.9	7916.9	7916.9
2.5°	9090.9	9174.3	9137.6	9009.9	8911.8	8773.2	8618.7	8572.0	8408.9	8226.1	8006.6
5°	10529.8	10488.1	10428.0	10229.2	10019.5	9775.4	9387.8	9326.5	8963.4	8549.9	8113.2
7.5°	11349.2	11345.6	11310.0	11193.5	11002.0	10683.2	10215.8	10143.4	9595.1	8930.2	8253.1
10°	11230.3	11221.7	11280.6	11402.0	11459.6	11393.4	10999.6	10927.2	10253.8	9351.0	8415.0
12.5°	10554.3	10559.3	10653.7	10908.9	11256.0	11673.0	11609.3	11573.7	10937.1	9826.9	8611.3
15°	10028.1	10039.1	10114.0	10336.0	10745.7	11502.6	11979.7	11992.0	11598.2	10351.9	8840.7
17.5°	9797.5	9820.7	9855.1	10011.0	10386.3	11162.7	12068.1	12134.3	12177.3	10896.6	9061.4
20°	9871.1	9893.1	9903.0	10002.3	10310.3	10956.7	12006.7	12125.7	12621.3	11409.3	9282.3
22.5°	10201.1	10214.5	10220.7	10246.5	10485.7	11015.6	11966.3	12091.4	12942.7	11869.3	9449.2
25°	10748.2	10738.3	10699.1	10665.9	10826.6	11248.6	12059.4	12178.5	13203.9	12286.5	9558.2
27.5°	11403.2	11391.0	11314.9	11224.1	11316.1	11611.7	12328.1	12422.6	13438.2	12676.5	9613.5
30°	12189.5	12157.6	12014.1	11906.1	11941.7	12156.4	12771.0	12856.8	13800.1	13119.4	9667.4
32.5°	13098.5	13064.1	12856.8	12677.7	12677.7	12856.8	13227.3	13298.4	14106.8	13619.8	9754.5
35°	14236.8	14193.9	13924.0	13623.5	13538.8	13629.7	13849.2	13899.5	14658.8	14250.3	9912.8
37.5°	15578.8	15521.2	15171.6	14769.2	14584.0	14579.1	14737.4	14840.4	15540.8	15078.3	10181.4
40°	16924.4	16884.0	16578.6	16262.1	15899.0	15782.5	16026.5	16058.5	16693.9	16106.3	10524.9
42.5°	17964.7	17957.3	17900.9	17942.6	17570.9	17335.4	17526.8	17552.6	18102.1	17218.9	10890.4
45°	18514.2	18526.5	18800.1	19406.1	19543.4	19371.7	19466.2	19473.5	19711.5	18341.3	11225.3
47.5°	18073.9	18137.7	18829.6	20185.0	21309.9	21880.3	21723.2	21814.1	21271.8	19305.5	11487.8
50°	16357.8	16436.2	17613.9	19837.9	22134.2	24307.9	24225.6	24204.9	22530.4	20012.1	11630.2
52.5°	14231.9	14293.3	15264.8	18033.4	21529.5	25649.9	26404.3	26296.3	23649.1	20540.7	11657.1
55°	10994.7	11090.4	12021.4	14431.9	19083.4	25137.1	28006.3	27909.4	24668.5	20817.9	11625.2
57°	7816.4	7916.9	8841.9	11014.3	16053.5	23362.1	28165.8	28268.8	25219.3	20864.6	11660.8
57.5°	6974.9	7077.9	7994.3	10104.1	15109.0	22720.5	28028.4	28200.1	25318.6	20857.3	11680.4
60°	3512.0	3551.2	4135.1	5640.2	9550.9	18368.3	26236.2	26679.1	25408.2	20496.6	11765.1
62.5°	2183.5	2155.2	2136.9	2598.1	4646.7	12180.9	22537.8	23390.3	23694.6	19623.1	11560.2
65°	1919.7	1867.0	1664.6	1627.8	2052.2	5916.3	16972.3	18033.4	20032.9	18246.9	11072.0
67.5°	1803.2	1751.7	1523.5	1386.1	1387.4	2345.5	10537.2	11732.0	15605.8	15919.9	9920.1
70°	1683.0	1636.4	1422.9	1261.0	1181.3	1299.0	4847.9	5754.4	10172.9	12513.4	8291.1
72.5°	1528.5	1496.5	1294.1	1127.4	1042.7	972.7	1855.9	2192.1	5889.2	8404.0	5758.0
75°	1366.5	1337.1	1164.2	1004.7	901.6	765.5	1045.1	1126.1	2991.9	4299.5	2834.9
77.5°	1188.7	1171.5	1035.3	888.1	805.9	634.2	739.6	779.0	1283.1	1843.7	1421.7
80°	945.8	978.9	905.3	791.2	715.1	507.9	523.8	549.5	747.0	900.3	807.2
82.5°	615.8	673.4	709.0	642.8	588.8	399.9	376.6	387.6	487.0	549.5	350.8
85°	256.4	288.3	466.1	420.8	391.3	291.9	252.7	257.6	301.7	312.8	143.6
87.5°	114.1	121.5	204.8	192.6	165.6	100.6	108.0	117.7	160.7	152.1	55.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7916.9	7916.9	7916.9	7916.9	7916.9	7916.9	7916.9	7916.9	7916.9	7916.9	7916.9
2.5°	7924.3	7821.3	7644.7	7449.6	7290.2	7162.6	7033.7	6945.4	6842.4	6787.3	6759.0
5°	7930.5	7728.1	7356.4	6974.9	6633.9	6322.3	6025.4	5797.3	5583.9	5468.6	5436.6
7.5°	7956.3	7652.0	7051.0	6422.9	5817.0	5263.7	4836.8	4569.3	4376.8	4290.9	4266.4
10°	7977.1	7562.5	6673.1	5743.3	4918.9	4358.4	4027.2	3877.6	3811.3	3800.2	3789.3
12.5°	8026.1	7470.5	6275.6	5034.3	4221.0	3833.4	3718.1	3708.2	3726.7	3753.7	3753.7
15°	8103.4	7379.7	5821.8	4425.9	3777.0	3640.8	3664.1	3718.1	3768.4	3810.0	3816.2
17.5°	8159.9	7268.0	5333.6	3938.9	3540.2	3577.0	3660.4	3736.4	3788.0	3828.5	3832.1
20°	8200.3	7095.1	4812.3	3567.2	3404.1	3518.1	3622.4	3689.9	3725.4	3765.9	3772.0
22.5°	8179.5	6863.3	4349.8	3301.0	3293.7	3432.3	3531.6	3612.5	3585.6	3546.3	3572.1
25°	8078.9	6544.3	3873.8	3102.2	3177.1	3317.0	3439.6	3385.6	3294.9	3277.7	3287.5
27.5°	7899.8	6137.0	3433.5	2918.3	3042.2	3210.2	3202.8	3148.9	3117.0	3094.9	3108.4
30°	7707.3	5695.5	3048.3	2757.6	2892.5	3031.2	3002.9	3001.7	2969.8	2934.2	2951.4
32.5°	7517.1	5251.4	2742.8	2625.1	2779.6	2798.1	2859.4	2877.8	2815.2	2740.4	2735.5
35°	7351.5	4831.8	2511.0	2504.8	2643.5	2646.0	2735.5	2709.8	2553.9	2476.7	2476.7
37.5°	7227.6	4413.6	2334.4	2397.0	2464.4	2528.2	2573.6	2466.8	2441.1	2398.2	2397.0
40°	7173.7	4045.6	2224.0	2314.7	2338.1	2419.0	2302.5	2344.1	2356.4	2334.4	2334.4
42.5°	7117.2	3725.4	2128.3	2252.2	2248.5	2237.5	2178.6	2232.5	2281.6	2282.9	2279.1
45°	7060.8	3449.4	2043.6	2118.4	2170.0	2051.0	2062.1	2119.7	2188.4	2212.9	2212.9
47.5°	6998.2	3231.1	1966.4	1977.4	2057.1	1977.4	1968.8	2013.0	2093.9	2133.2	2141.8
50°	6860.8	3034.8	1878.0	1853.5	1875.6	1902.6	1910.0	1930.8	2020.3	2082.9	2097.7
52.5°	6670.7	2859.4	1765.2	1739.4	1739.4	1841.2	1875.6	1881.7	1957.7	2032.6	2047.4
55°	6512.4	2747.8	1648.7	1643.7	1638.9	1776.3	1835.1	1844.9	1897.7	1956.5	1963.9
57°	6523.4	2739.2	1559.1	1564.0	1562.8	1709.9	1797.0	1817.9	1844.9	1895.2	1903.8
57.5°	6529.6	2745.3	1539.5	1541.9	1540.7	1691.6	1786.1	1809.3	1830.2	1882.9	1891.5
60°	6621.6	2761.3	1459.7	1432.7	1438.9	1593.4	1723.5	1752.9	1766.4	1836.4	1847.4
62.5°	6485.4	2690.1	1395.9	1330.9	1330.9	1490.4	1636.4	1683.0	1703.9	1798.4	1816.7
65°	6090.5	2490.1	1321.1	1215.7	1227.9	1387.4	1532.1	1608.1	1640.1	1757.8	1777.5
67.5°	5480.8	2258.4	1241.4	1112.6	1124.8	1279.4	1424.1	1506.4	1556.6	1713.7	1729.6
70°	4687.2	1975.0	1133.4	1003.5	1018.2	1161.6	1296.6	1389.9	1464.7	1671.9	1676.9
72.5°	3455.6	1619.2	982.6	883.2	899.1	1024.2	1167.8	1275.8	1376.4	1567.7	1565.3
75°	2054.7	1266.0	815.8	761.7	772.8	889.3	1051.3	1182.5	1333.4	1527.2	1550.6
77.5°	1246.3	953.2	664.8	637.8	651.3	770.4	967.9	1107.7	1315.0	1440.1	1432.7
80°	753.2	680.8	531.2	513.9	527.4	658.7	895.5	1051.3	1149.4	1230.4	1230.4
82.5°	393.8	415.8	390.0	376.6	395.0	534.8	814.5	917.6	1015.7	872.2	814.5
85°	160.7	217.1	236.7	235.5	246.6	370.5	702.9	785.1	655.1	621.9	636.6
87.5°	53.9	92.0	115.3	99.4	104.2	233.1	487.0	379.0	450.2	314.0	298.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)