

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: P383121

Luminaire Tested: **GLEON-SA4C-735-U-T2R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383121  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA4C-735-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27690.3 lumens  
Efficiency: N/A  
Efficacy: 123.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

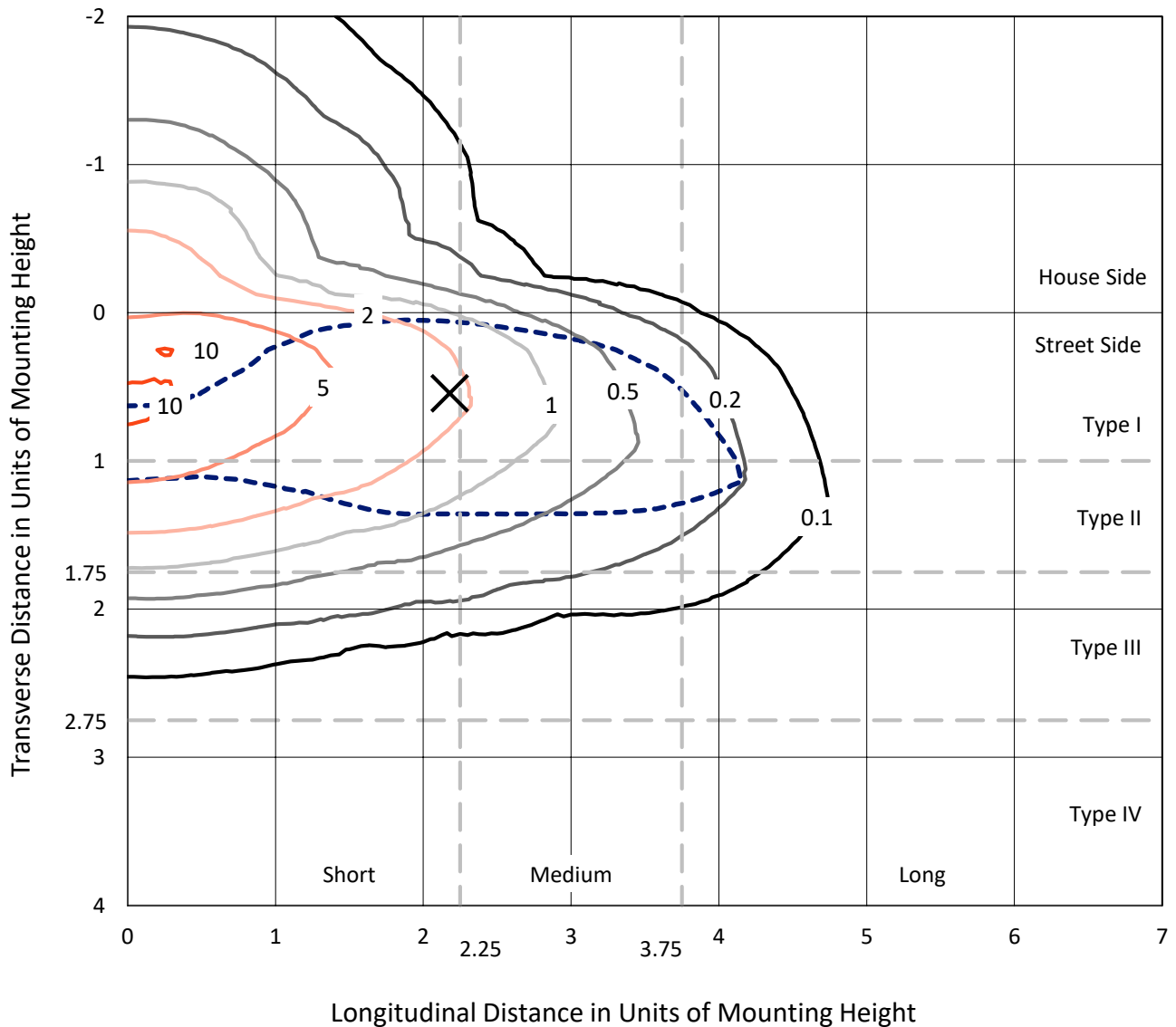
Input Watts (W): 225  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

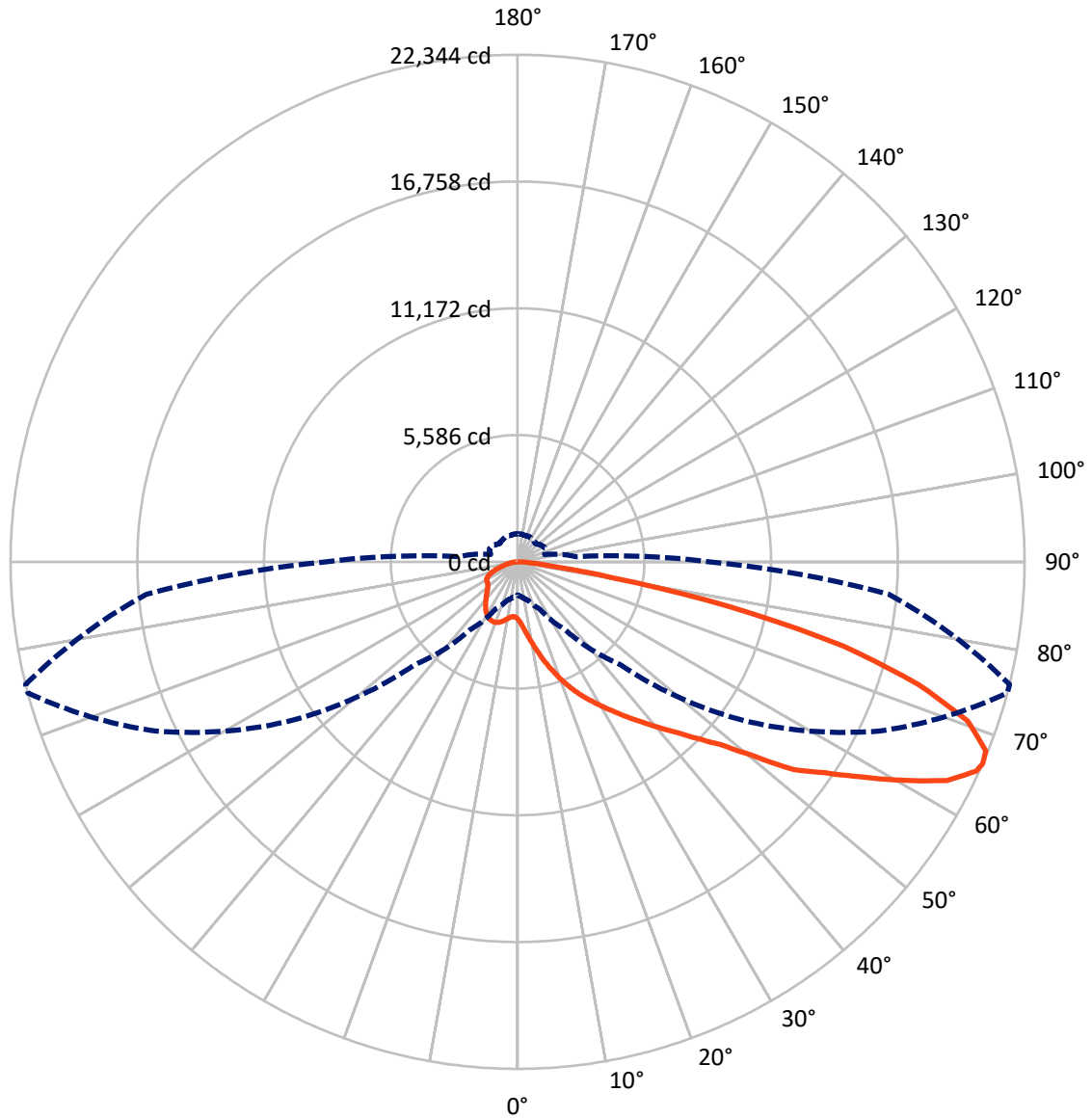
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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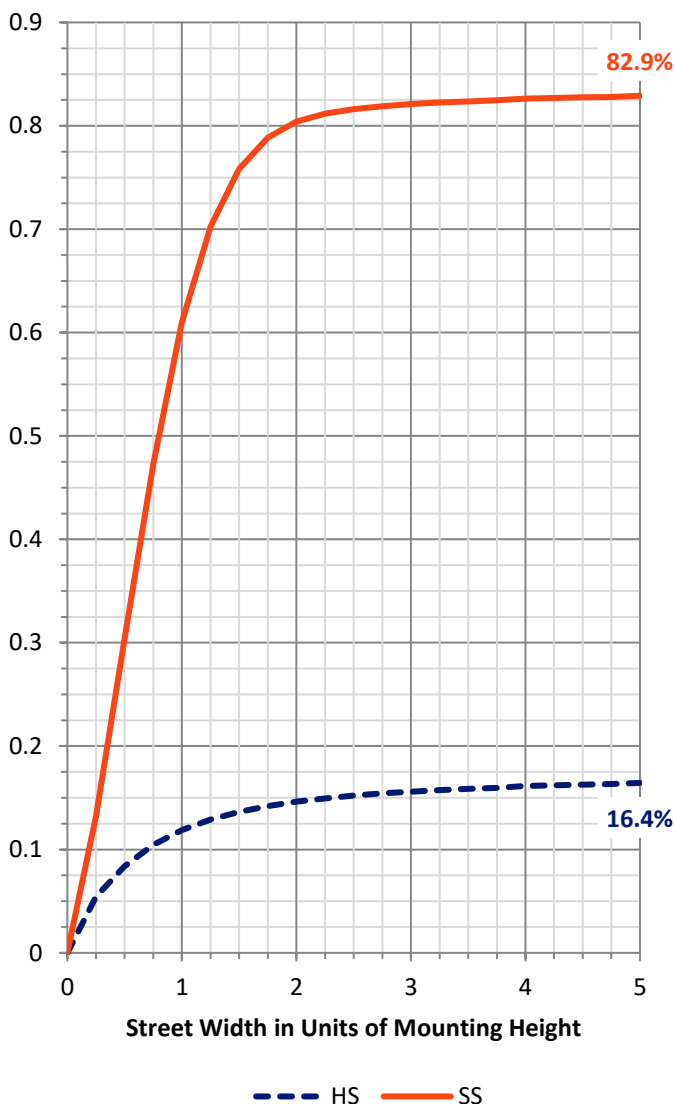
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4659.3	0.0	4659.3
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	23030.9	0.0	23030.9
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	27690.3	0.0	27690.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	305.8	1.1
10°-20°	1207.6	4.4
20°-30°	2346.6	8.5
30°-40°	3830.1	13.8
40°-50°	5232.9	18.9
50°-60°	6095.3	22.0
60°-70°	5464.5	19.7
70°-80°	2761.5	10.0
80°-90°	445.9	1.6
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°	27690.3	100.0
0°-180°	27690.3	100.0

**Coefficient of Utilization**

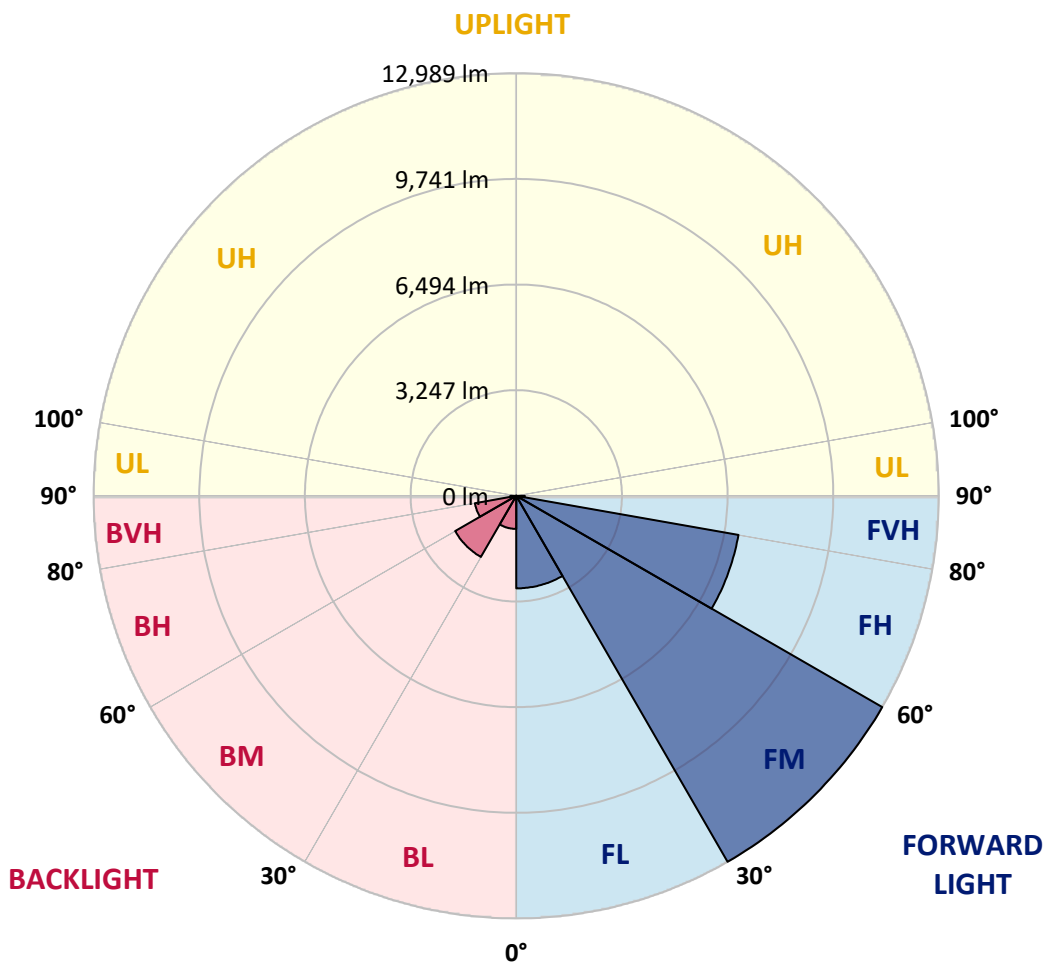


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2843.7	10.3			
FM (30°-60°)	12988.7	46.9			
FH (60°-80°)	6935.2	25.0			G3/7500
FVH (80°-90°)	263.4	1.0			G3/500
BL (0°-30°)	1016.2	3.7	B3/2500		
BM (30°-60°)	2169.7	7.8	B2/2500		
BH (60°-80°)	1290.8	4.7	B3/2500		G3/2500
BVH (80°-90°)	182.6	0.7			G2/225
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°	65°	75°	76°	85°
0°	2528.8	2528.8	2528.8	2528.8	2528.8	2528.8	2528.8	2528.8	2528.8	2528.8	2528.8
2.5°	3356.9	3306.2	3301.5	3227.2	3210.3	3068.3	2964.0	2854.9	2730.8	2706.4	2608.6
5°	4312.0	4307.3	4242.5	4121.2	4026.2	3783.8	3544.0	3290.2	3012.0	2966.8	2746.9
7.5°	5171.2	5163.8	5113.9	4983.2	4846.0	4548.0	4205.8	3816.6	3365.4	3298.6	2933.9
10°	5823.7	5820.8	5803.9	5708.0	5591.4	5305.6	4927.8	4396.6	3776.2	3685.0	3168.0
12.5°	6327.5	6333.1	6344.4	6310.6	6255.2	6011.6	5624.3	5011.4	4214.2	4124.1	3428.4
15°	6668.8	6685.6	6743.9	6791.9	6821.1	6671.6	6296.5	5640.3	4705.0	4596.9	3717.0
17.5°	6840.7	6859.5	6960.2	7104.9	7238.4	7223.4	6925.4	6240.1	5176.0	5071.6	4027.2
20°	6989.3	7003.4	7116.2	7290.1	7526.1	7630.4	7463.1	6817.3	5692.0	5568.0	4356.2
22.5°	7419.9	7437.7	7471.6	7570.2	7779.0	7970.7	7889.8	7363.4	6164.9	6049.3	4668.3
25°	8250.8	8272.5	8199.1	8115.5	8155.0	8288.4	8303.5	7861.7	6644.3	6513.7	5003.9
27.5°	9252.0	9283.1	9158.0	8942.8	8754.7	8703.0	8685.2	8269.6	7102.1	6950.7	5335.7
30°	10232.5	10286.1	10123.4	9844.2	9499.3	9256.7	9077.2	8669.2	7553.4	7408.6	5648.8
32.5°	11190.4	11168.8	10932.8	10660.2	10256.0	9952.4	9518.1	9097.9	8061.0	7894.6	5959.9
35°	11846.6	11854.0	11635.0	11311.7	10926.2	10693.1	10108.4	9560.4	8578.9	8425.7	6313.4
37.5°	12405.0	12370.2	12121.9	11820.2	11488.4	11388.7	10799.3	10069.8	9140.2	8972.9	6689.4
40°	12591.1	12550.6	12388.0	12170.9	11904.8	11896.4	11561.7	10647.0	9774.6	9609.2	7113.4
42.5°	12478.3	12426.6	12359.9	12300.6	12218.8	12256.5	12278.1	11323.9	10472.2	10287.0	7604.1
45°	12061.9	11983.8	12030.8	12159.6	12337.2	12549.7	12924.8	12073.1	11253.4	11098.3	8180.4
47.5°	11421.6	11351.2	11497.8	11773.3	12256.5	12794.2	13536.8	12900.4	12185.9	12031.8	9001.0
50°	10521.1	10541.8	10751.4	11252.4	11982.9	12907.0	14290.7	13995.5	13541.4	13397.6	10120.6
52.5°	9043.3	9047.1	9637.4	10460.0	11497.8	12848.6	14709.0	15395.2	15392.4	15218.5	11186.7
55°	7670.8	7754.5	8221.7	9315.0	10711.9	12615.5	15001.4	16075.9	16607.9	16403.9	12180.3
57.5°	6330.3	6379.2	6822.0	7919.9	9590.5	11994.1	15301.2	16892.8	18008.6	17879.8	13415.5
60°	4805.6	4880.8	5338.6	6352.9	8155.9	10891.5	15329.5	17745.4	19682.9	19553.1	14794.6
62.5°	3119.1	3248.9	3677.5	4627.9	6420.6	9305.6	14675.1	18302.9	21269.7	21223.6	16018.5
65°	1792.7	1890.5	2188.5	2921.7	4429.5	7314.5	13119.4	18088.5	22246.4	22220.0	16476.3
66°	1464.6	1525.7	1754.1	2283.4	3654.9	6423.4	12215.1	17636.3	22343.2	22344.1	16423.6
67.5°	1171.3	1198.5	1301.0	1634.8	2697.0	5091.4	10599.1	16638.9	22222.9	22255.8	16084.3
70°	969.2	983.3	1015.3	1096.1	1472.1	3070.2	7523.3	14047.2	21014.9	21040.3	14759.8
72.5°	869.5	878.0	890.2	901.6	1038.8	1715.6	4595.0	11237.4	18425.1	18458.0	12741.5
75°	787.8	792.5	790.6	791.5	871.5	1093.3	2374.6	8390.0	14898.0	14832.2	9760.6
77.5°	691.9	696.6	687.2	689.1	770.9	840.4	1181.7	5873.5	10053.9	9589.4	5499.3
80°	584.7	588.5	584.7	591.3	671.2	634.6	687.2	3304.3	4445.5	4204.8	1955.3
82.5°	441.8	457.8	469.1	495.4	552.8	451.2	459.7	1286.9	1353.6	1288.8	599.7
85°	193.7	236.0	353.4	378.9	415.5	270.7	301.7	524.6	550.9	534.0	218.1
87.5°	50.8	55.4	174.9	219.9	230.3	122.2	157.0	238.8	251.9	238.8	72.4
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°	2528.8	2528.8	2528.8	2528.8	2528.8	2528.8	2528.8	2528.8	2528.8	2528.8	2528.8
2.5°	2556.9	2510.9	2428.2	2354.9	2299.3	2261.8	2224.2	2205.3	2194.1	2182.8	2184.7
5°	2638.7	2545.6	2403.7	2303.2	2246.7	2211.0	2192.2	2184.7	2180.0	2168.7	2168.7
7.5°	2761.9	2630.2	2434.7	2331.3	2287.1	2259.9	2248.6	2244.8	2239.3	2226.0	2227.9
10°	2917.0	2732.7	2499.6	2399.0	2358.6	2328.5	2312.6	2306.9	2296.5	2281.5	2283.4
12.5°	3099.4	2859.7	2585.1	2479.9	2431.0	2390.5	2364.3	2348.2	2330.4	2310.6	2311.6
15°	3298.6	2997.8	2677.3	2552.3	2485.5	2429.1	2386.8	2359.5	2331.3	2306.9	2306.0
17.5°	3500.8	3131.3	2747.8	2591.8	2501.5	2427.2	2369.9	2327.6	2292.8	2262.7	2259.9
20°	3718.8	3251.7	2787.3	2587.9	2471.4	2383.0	2306.9	2254.3	2215.7	2185.6	2180.9
22.5°	3940.7	3364.5	2793.8	2549.5	2404.7	2296.5	2216.6	2158.4	2118.9	2087.9	2076.6
25°	4143.8	3451.8	2766.6	2475.1	2311.6	2195.0	2117.0	2057.8	2025.8	1989.1	1977.9
27.5°	4328.9	3513.0	2712.0	2380.2	2207.2	2092.5	2019.2	1968.5	1933.7	1905.5	1896.1
30°	4495.4	3545.8	2622.8	2267.4	2100.1	1995.7	1933.7	1898.9	1868.9	1833.1	1826.5
32.5°	4653.3	3545.8	2508.1	2144.2	1993.9	1910.2	1873.5	1851.9	1818.1	1783.3	1773.9
35°	4811.2	3524.2	2372.7	2015.5	1896.1	1849.1	1847.2	1821.8	1770.1	1723.1	1710.9
37.5°	4977.5	3480.1	2220.4	1895.1	1816.1	1821.8	1837.9	1781.4	1708.1	1641.3	1623.5
40°	5165.6	3419.0	2062.4	1790.8	1749.4	1809.6	1812.4	1723.1	1580.2	1519.2	1503.1
42.5°	5386.5	3357.9	1915.8	1698.7	1696.8	1772.9	1764.4	1597.1	1511.6	1480.6	1472.1
45°	5676.9	3323.1	1776.7	1611.3	1655.5	1713.7	1682.7	1527.6	1491.9	1474.0	1466.4
47.5°	6134.8	3341.0	1648.8	1541.7	1614.1	1654.5	1530.4	1499.4	1474.0	1452.4	1444.8
50°	6708.3	3330.7	1545.4	1493.7	1567.0	1592.5	1461.8	1462.7	1449.6	1425.1	1413.8
52.5°	7139.8	3249.8	1478.7	1466.4	1525.7	1482.5	1418.6	1427.0	1420.4	1384.7	1372.4
55°	7556.2	3180.2	1444.8	1456.1	1495.6	1345.2	1367.8	1388.5	1381.9	1347.1	1341.4
57.5°	8074.1	3167.1	1424.1	1459.0	1470.3	1276.6	1318.9	1346.2	1341.4	1326.4	1323.6
60°	8708.7	3170.8	1405.4	1463.6	1442.0	1225.8	1272.9	1307.6	1310.4	1307.6	1305.8
62.5°	9057.4	3068.3	1358.4	1450.5	1392.2	1181.7	1224.9	1275.7	1276.6	1282.3	1281.3
65°	8761.3	2761.9	1270.9	1404.4	1308.5	1145.0	1183.5	1239.0	1224.9	1250.2	1250.2
66°	8473.6	2585.1	1227.7	1374.3	1272.9	1130.9	1170.4	1220.2	1202.3	1237.1	1237.1
67.5°	7886.1	2287.1	1149.7	1310.4	1222.1	1111.1	1155.3	1189.2	1164.7	1216.4	1212.7
70°	6812.6	1769.2	992.7	1165.6	1138.4	1082.0	1134.6	1127.1	1091.4	1170.4	1155.3
72.5°	5743.7	1344.3	797.1	975.8	1011.5	1045.4	1105.5	1048.2	1003.0	1058.5	1025.6
75°	4456.8	1010.5	629.8	758.7	854.5	988.0	1070.7	957.0	892.1	886.5	868.6
77.5°	2409.4	693.7	499.1	579.0	678.7	916.5	1047.2	859.2	761.4	738.9	724.7
80°	954.2	451.2	362.8	439.0	474.7	813.1	990.8	745.4	628.0	605.4	583.8
82.5°	393.9	267.0	234.1	294.3	309.3	695.7	889.3	611.0	485.1	671.2	712.5
85°	169.2	146.6	139.2	152.3	174.9	487.9	707.9	466.2	523.6	467.2	371.3
87.5°	50.8	62.0	59.2	58.3	63.9	116.5	377.0	259.4	384.4	145.7	109.1
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)