

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: P269080

Luminaire Tested: **GLEON-AF-02-LED-E1-SL3-7027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269080
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-02-LED-E1-SL3-7027-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9040.5 lumens
Efficiency: N/A
Efficacy: 80.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 113
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: 25 FT

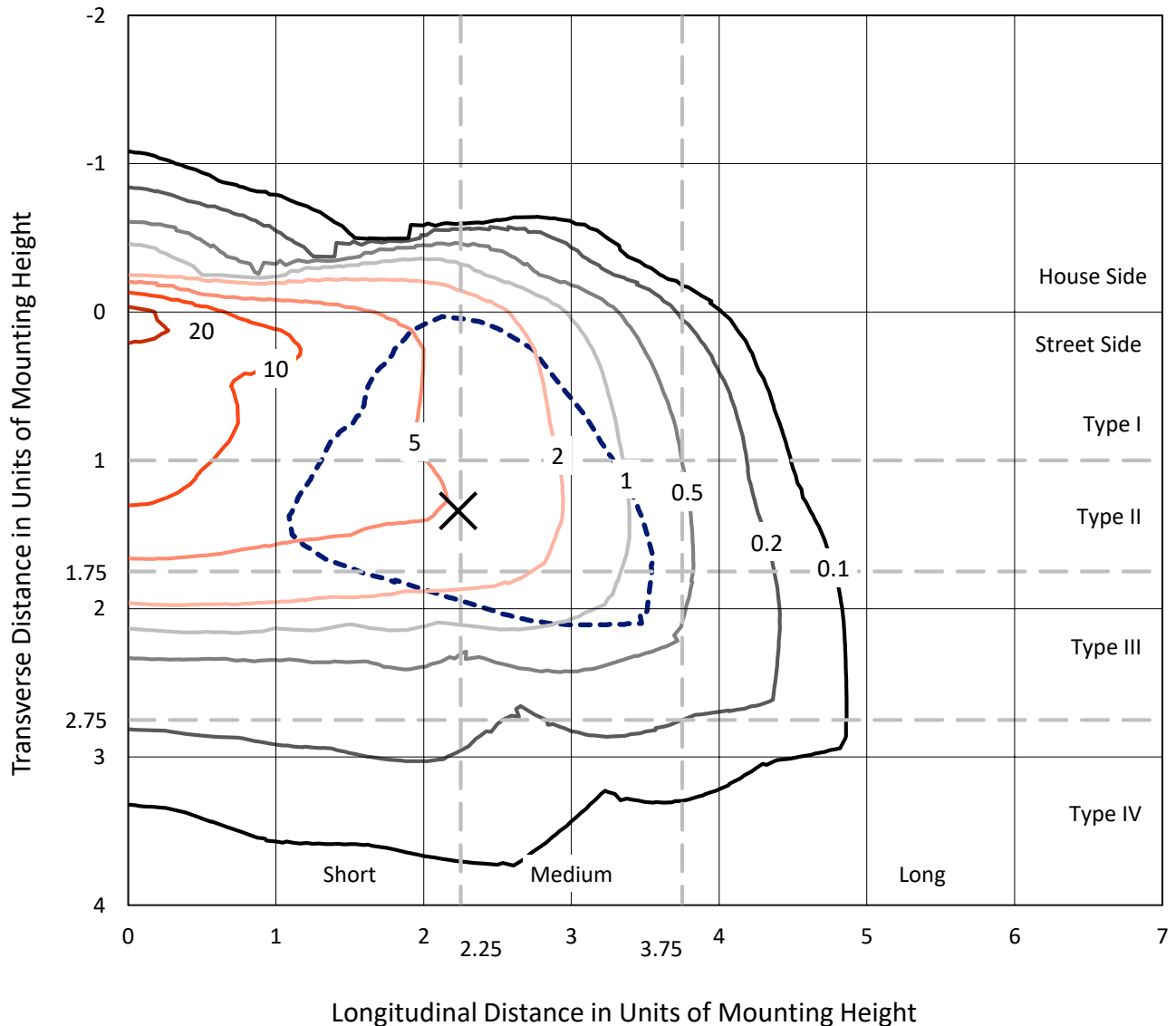


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

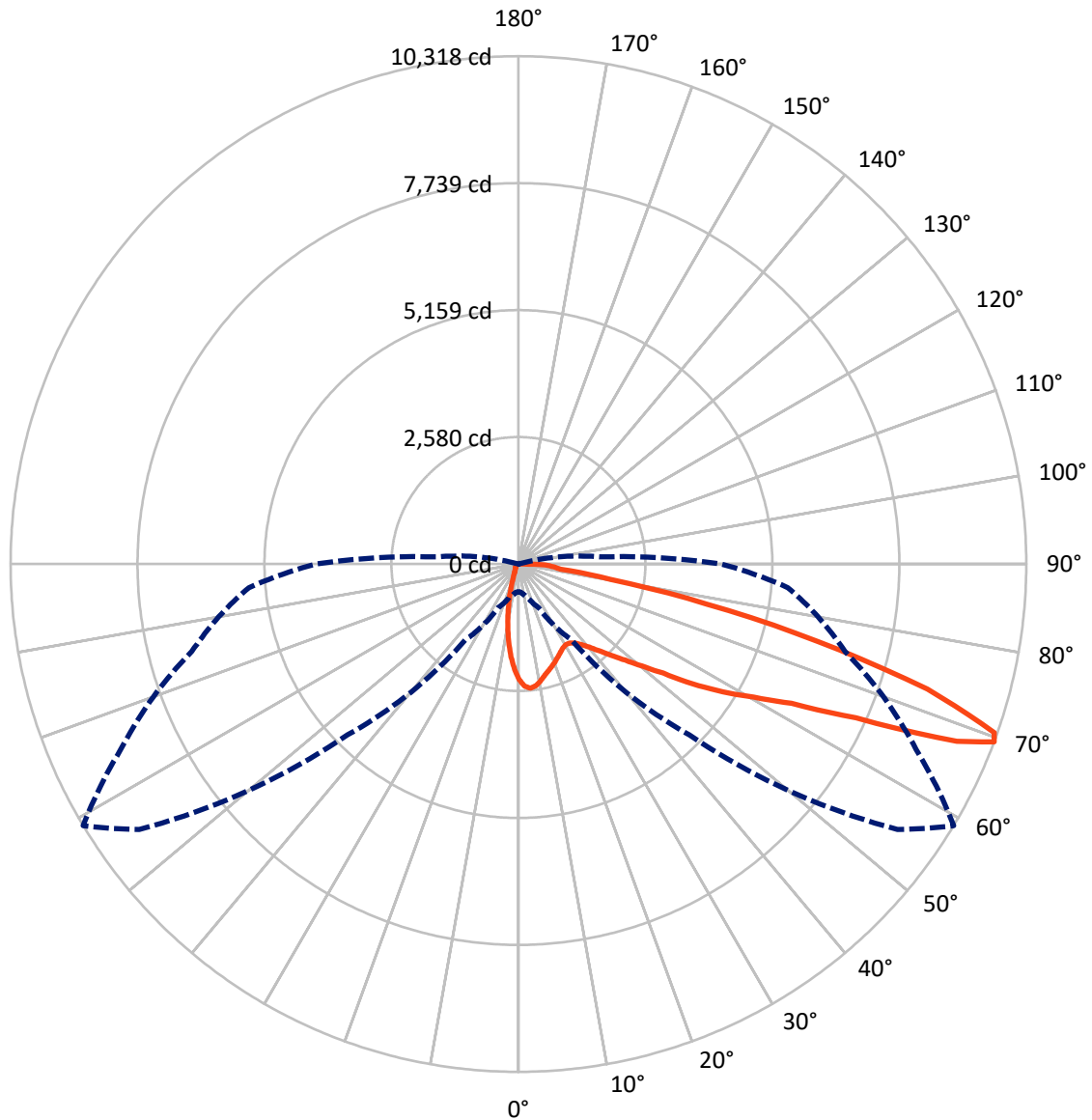


Based on 10 foot mounting height. Maximum calculated value = 23.6 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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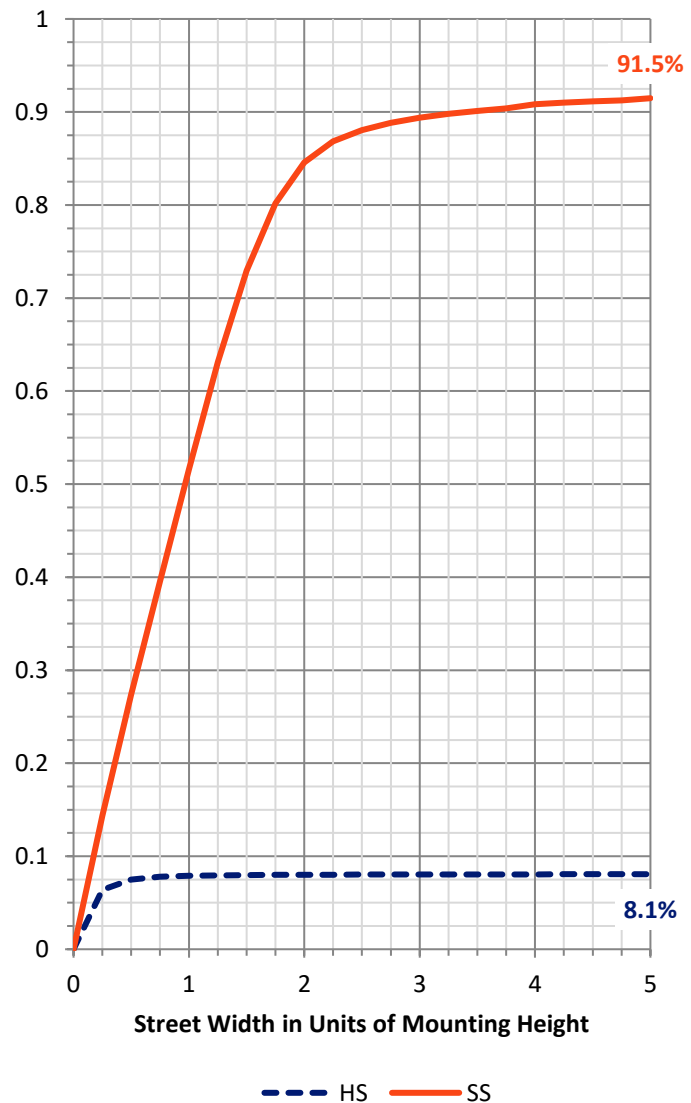
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	736.2	0.0	736.2
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	8304.2	0.0	8304.2
	% Fixture	91.9	0.0	91.9
Total	Lumens	9040.5	0.0	9040.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.0	2.1
10°-20°	394.7	4.4
20°-30°	531.1	5.9
30°-40°	771.1	8.5
40°-50°	1283.9	14.2
50°-60°	2002.9	22.2
60°-70°	2478.4	27.4
70°-80°	1256.0	13.9
80°-90°	131.4	1.5
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°	9040.5	100.0
0°-180°	9040.5	100.0



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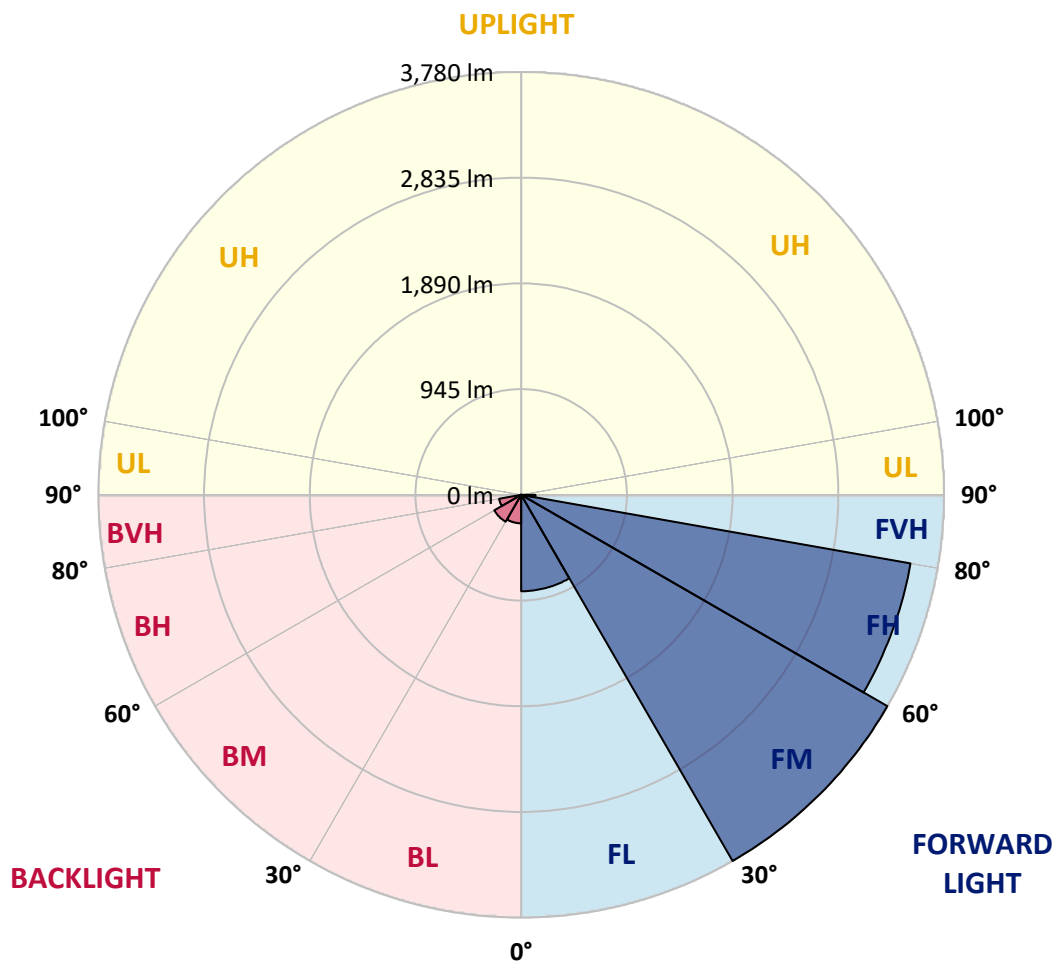
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	861.9	9.5			
FM	(30°-60°)	3780.4	41.8			
FH	(60°-80°)	3534.5	39.1			G2/5000
FVH	(80°-90°)	127.4	1.4			G2/225
BL	(0°-30°)	254.8	2.8	B1/500		
BM	(30°-60°)	277.4	3.1	B1/1000		
BH	(60°-80°)	199.9	2.2	B1/500		G1/500
BVH	(80°-90°)	4.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2353.1	2353.1	2353.1	2353.1	2353.1	2353.1	2353.1	2353.1	2353.1	2353.1	2353.1
2.5°	2579.0	2578.0	2566.7	2561.6	2552.4	2533.0	2502.9	2487.0	2461.4	2417.0	2357.2
5°	2555.6	2567.8	2574.5	2574.9	2581.5	2574.5	2547.4	2534.1	2498.7	2427.2	2319.9
7.5°	2396.0	2400.6	2419.6	2435.9	2467.6	2497.7	2507.4	2501.9	2480.8	2404.3	2261.7
10°	2225.3	2230.0	2252.4	2273.9	2316.8	2363.4	2412.4	2422.5	2431.4	2371.4	2205.3
12.5°	2078.0	2082.7	2105.6	2133.7	2183.9	2241.1	2317.3	2334.2	2372.6	2340.4	2160.3
15°	1951.3	1953.4	1975.8	2010.5	2070.5	2144.1	2230.4	2257.5	2316.3	2318.3	2121.0
17.5°	1843.4	1848.5	1862.4	1895.6	1961.0	2052.0	2152.7	2191.5	2260.6	2299.9	2082.7
20°	1777.4	1782.5	1782.1	1800.6	1859.2	1956.4	2075.1	2121.4	2205.3	2281.1	2048.4
22.5°	1764.7	1764.7	1751.3	1748.8	1783.7	1864.9	1994.2	2051.0	2155.8	2272.8	2024.4
25°	1810.2	1808.2	1775.0	1747.8	1749.4	1797.9	1916.1	1983.5	2113.8	2278.6	2011.7
27.5°	1906.4	1903.8	1861.8	1810.2	1768.9	1768.3	1856.6	1929.3	2080.7	2305.1	2016.8
30°	2039.2	2038.2	1992.7	1927.8	1852.7	1783.7	1836.2	1902.3	2059.2	2353.1	2028.6
32.5°	2184.4	2182.9	2148.7	2080.1	1985.1	1852.7	1857.8	1912.9	2065.4	2417.0	2057.1
35°	2338.3	2335.8	2321.0	2261.0	2156.3	1980.0	1928.3	1971.2	2104.1	2512.6	2113.4
37.5°	2505.0	2507.4	2518.2	2460.9	2351.0	2158.4	2046.3	2075.5	2182.3	2642.5	2204.8
40°	2750.8	2750.3	2753.8	2678.7	2572.9	2376.6	2211.4	2220.7	2313.2	2814.7	2343.9
42.5°	3197.1	3165.9	3071.3	2918.0	2811.7	2626.0	2419.6	2409.9	2473.3	3027.8	2538.7
45°	3796.7	3730.3	3485.0	3191.0	3055.0	2907.3	2675.7	2644.5	2684.9	3284.1	2778.9
47.5°	4312.6	4243.6	3896.5	3475.3	3313.2	3174.2	2975.7	2919.5	2932.7	3570.9	3083.6
50°	4487.9	4454.2	4151.0	3722.7	3563.1	3509.9	3323.9	3255.4	3236.5	3902.5	3436.8
52.5°	4427.0	4424.5	4222.7	3883.2	3792.1	3857.6	3762.0	3682.7	3613.3	4252.2	3796.2
55°	4329.4	4342.1	4251.8	4023.8	4020.6	4175.1	4361.1	4295.2	4093.8	4632.1	4106.1
57.5°	4060.0	4114.7	4235.4	4289.5	4415.3	4573.4	4860.1	4898.9	4660.6	4922.9	4363.2
60°	3294.3	3414.4	3809.1	4327.9	4924.0	5317.5	5462.2	5495.6	5125.9	5164.7	4710.4
62.5°	2338.3	2460.9	2961.4	3839.1	4931.6	6295.5	6359.5	6229.0	5638.1	5523.0	5309.0
65°	1241.2	1335.8	1744.8	2771.4	4275.8	6522.6	7928.4	7539.8	6541.9	6228.0	6082.3
67.5°	634.9	663.6	826.1	1356.3	2939.4	5793.6	9334.6	9608.2	8099.6	6927.4	6045.1
69°	561.8	578.7	686.6	980.5	1882.3	4907.1	9403.2	10318.2	8915.0	6869.1	5493.4
70°	544.0	558.7	656.9	887.4	1471.2	4115.2	9141.0	10255.9	9123.5	6647.3	5081.4
72.5°	461.5	474.5	584.8	784.2	1195.7	2042.7	7425.3	8690.6	8187.1	5537.4	3678.2
75°	308.7	350.7	561.4	735.2	1112.5	1160.4	4895.4	6280.2	5834.0	3735.0	1916.1
77.5°	74.1	79.8	158.6	584.8	1017.3	1021.5	2517.7	3904.2	3184.3	1331.2	452.9
80°	39.9	38.4	44.5	116.1	947.3	958.5	1133.3	1895.1	1137.0	220.9	149.3
82.5°	28.0	26.6	28.7	48.6	298.1	873.2	820.1	857.8	471.3	84.9	67.0
85°	10.2	9.7	15.8	43.9	93.6	502.1	842.5	707.5	381.9	38.8	49.0
87.5°	3.6	3.1	6.2	24.1	28.7	213.6	519.8	534.8	150.2	23.5	22.9
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°	2353.1	2353.1	2353.1	2353.1	2353.1	2353.1	2353.1	2353.1	2353.1	2353.1	2353.1
2.5°	2332.1	2300.4	2242.2	2182.3	2127.1	2060.7	2027.5	1994.7	1980.9	1975.8	1951.7
5°	2264.6	2211.0	2087.3	1963.1	1848.5	1726.8	1646.7	1582.2	1544.4	1526.0	1496.8
7.5°	2178.3	2090.4	1902.7	1711.0	1532.6	1356.7	1226.4	1126.1	1057.1	1024.0	993.7
10°	2094.4	1977.3	1710.6	1449.2	1207.0	973.9	793.9	663.6	580.2	541.9	517.3
12.5°	2019.3	1867.4	1525.0	1194.1	890.0	617.0	434.1	330.2	278.7	260.7	252.1
15°	1952.2	1766.2	1349.7	951.8	602.8	352.8	237.2	201.8	193.8	193.8	192.7
17.5°	1889.0	1667.1	1180.5	724.5	378.2	215.8	180.5	175.9	175.9	178.0	178.0
20°	1828.1	1572.6	1016.8	519.8	238.2	171.2	163.1	162.1	163.1	165.6	165.6
22.5°	1775.9	1486.5	863.9	356.8	176.8	154.4	150.2	148.8	149.3	150.8	151.9
25°	1737.1	1414.0	719.8	241.9	152.4	140.6	136.0	133.4	131.4	131.4	132.4
27.5°	1712.6	1352.7	580.2	175.9	137.0	127.7	120.6	116.6	112.0	109.5	110.4
30°	1694.7	1294.4	449.3	143.6	122.7	113.5	104.4	97.6	91.0	87.9	88.9
32.5°	1688.1	1247.3	335.8	126.8	110.0	99.7	88.5	79.8	72.7	70.1	70.5
35°	1705.9	1210.0	245.9	114.5	99.7	86.9	74.1	64.4	58.7	57.2	57.9
37.5°	1753.0	1190.2	184.1	104.4	90.5	76.1	61.9	52.6	49.0	49.0	49.5
40°	1841.9	1189.5	147.7	97.1	82.4	65.9	51.2	44.5	42.4	43.5	43.9
42.5°	1971.7	1216.7	128.8	90.5	75.2	56.2	42.4	37.8	37.3	38.4	38.8
45°	2149.1	1266.3	118.5	84.9	67.6	47.0	35.8	32.7	32.7	34.2	34.8
47.5°	2366.3	1338.8	110.0	79.2	59.7	39.3	30.7	28.7	29.1	30.7	31.3
50°	2628.1	1430.5	101.1	73.1	54.2	32.7	26.6	25.1	25.5	27.6	28.0
52.5°	2926.1	1553.6	94.1	67.6	47.0	27.0	22.5	21.5	22.5	24.6	25.1
55°	3181.7	1664.0	85.3	62.9	37.8	22.5	18.4	18.4	19.5	22.0	22.5
57.5°	3427.7	1779.5	77.8	54.2	29.6	17.8	15.4	15.8	17.3	19.9	20.4
60°	3788.6	1975.4	68.5	45.5	22.5	14.4	12.8	13.2	15.4	17.8	18.4
62.5°	4401.5	2273.3	59.3	37.8	17.3	11.3	10.2	11.3	13.8	16.9	17.3
65°	4954.6	2394.5	48.6	31.7	13.2	8.8	8.8	10.2	13.2	16.3	16.9
67.5°	4646.5	2015.6	37.8	25.1	10.2	6.6	7.1	9.7	12.8	16.3	16.9
69°	4109.0	1648.1	32.2	19.9	8.8	6.2	6.6	9.7	12.8	15.8	16.3
70°	3690.4	1391.6	28.7	16.9	7.6	6.2	6.6	9.3	12.8	15.8	16.3
72.5°	2471.6	751.5	22.9	12.2	7.1	5.6	5.6	9.3	12.2	15.4	15.8
75°	1062.2	207.6	18.4	8.8	6.2	5.1	5.1	8.8	11.8	14.8	15.8
77.5°	194.3	52.6	14.8	7.6	6.2	5.1	4.6	8.2	11.3	14.4	14.8
80°	77.2	26.1	11.8	6.6	5.6	4.6	4.1	7.6	10.7	13.8	14.4
82.5°	46.5	14.8	9.7	6.2	5.6	4.1	3.6	6.6	10.2	13.2	13.8
85°	37.8	10.2	7.6	6.2	5.1	4.1	3.1	6.2	9.3	12.8	13.2
87.5°	18.4	7.1	7.1	5.6	5.1	4.1	3.1	5.6	8.8	12.2	12.8
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)