

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: P192860

Luminaire Tested: **GLEON-AF-02-LED-E1-SL3-7030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192860
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-SL3-7030-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 800mA 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: 8131.1 lumens
Efficiency: N/A
Efficacy: 95.7 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): 85
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

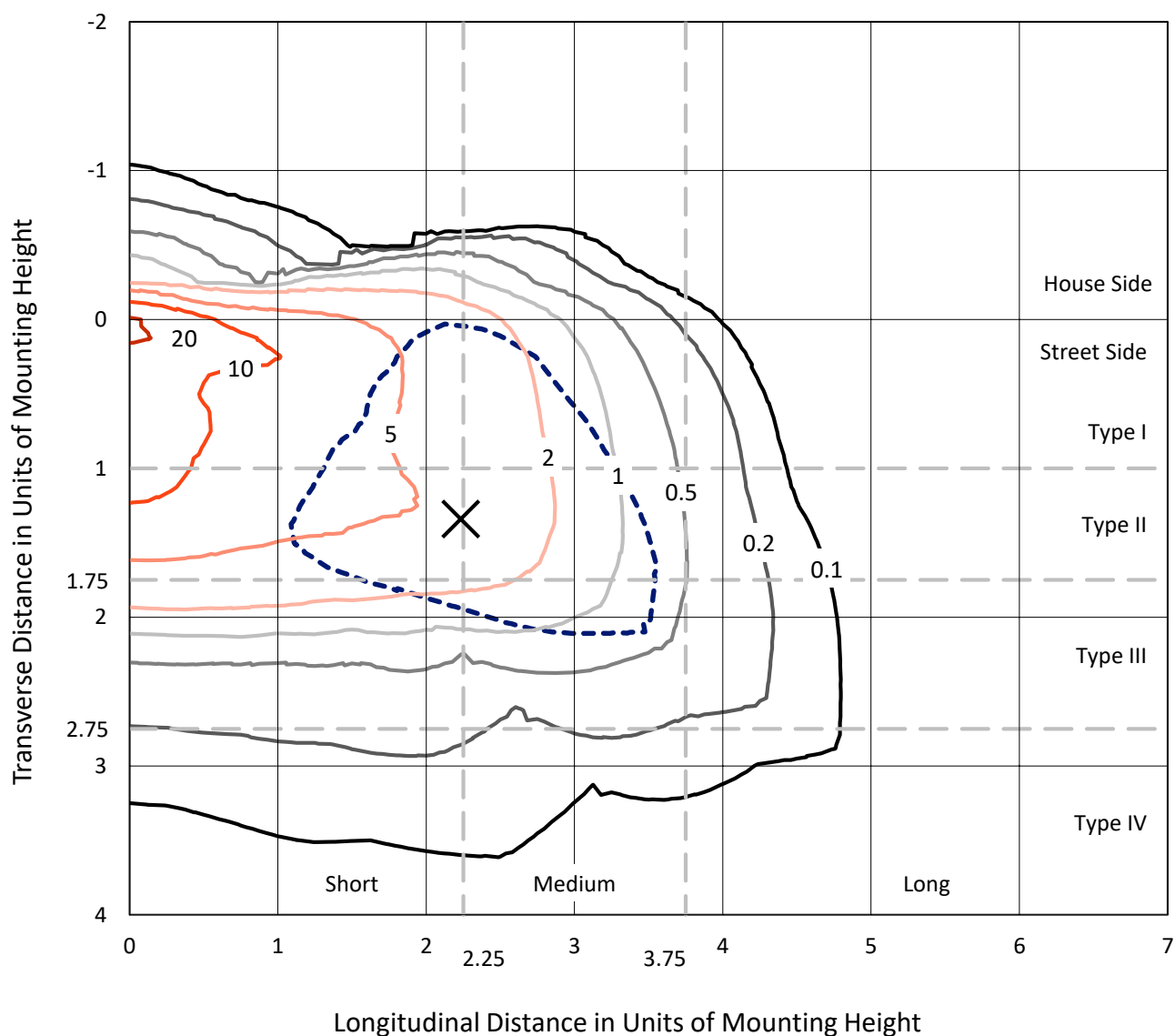


REPORT NUMBER: P192860

CATALOG NUMBER: GLEON-AF-02-LED-E1-SL3-7030-800-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

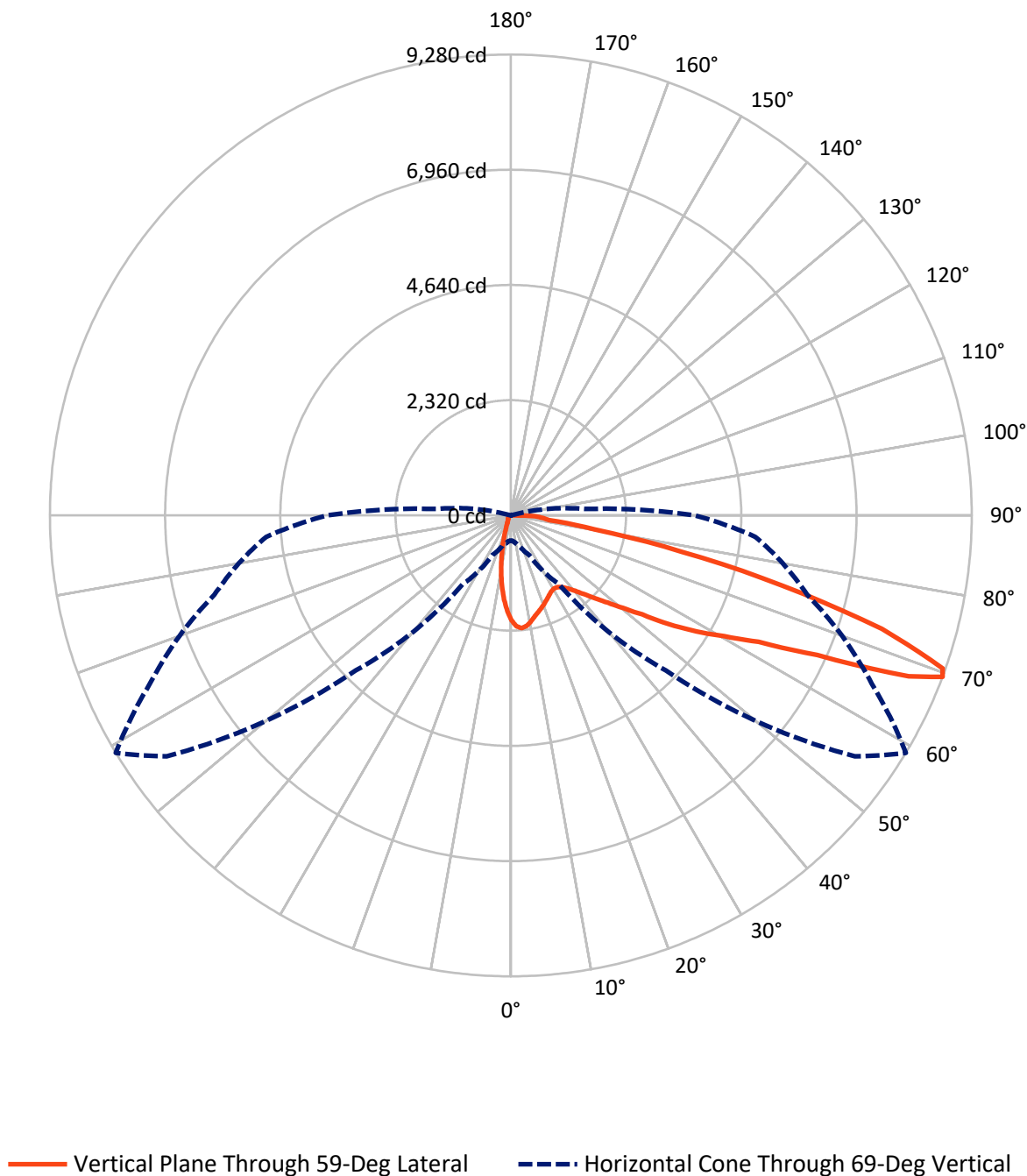


Based on 10 foot mounting height. Maximum calculated value = 21.3 fc
Type III - Short - Non-Cutoff

REPORT NUMBER: P192860

CATALOG NUMBER: GLEON-AF-02-LED-E1-SL3-7030-800-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	662.2	0.0	662.2
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	7468.9	0.0	7468.9
	% Fixture	91.9	0.0	91.9
Total	Lumens	8131.1	0.0	8131.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.8	2.1
10°-20°	355.0	4.4
20°-30°	477.7	5.9
30°-40°	693.5	8.5
40°-50°	1154.8	14.2
50°-60°	1801.4	22.2
60°-70°	2229.1	27.4
70°-80°	1129.7	13.9
80°-90°	118.2	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°	8131.1	100.0
0°-180°	8131.1	100.0

Coefficient of Utilization



REPORT NUMBER: P192860

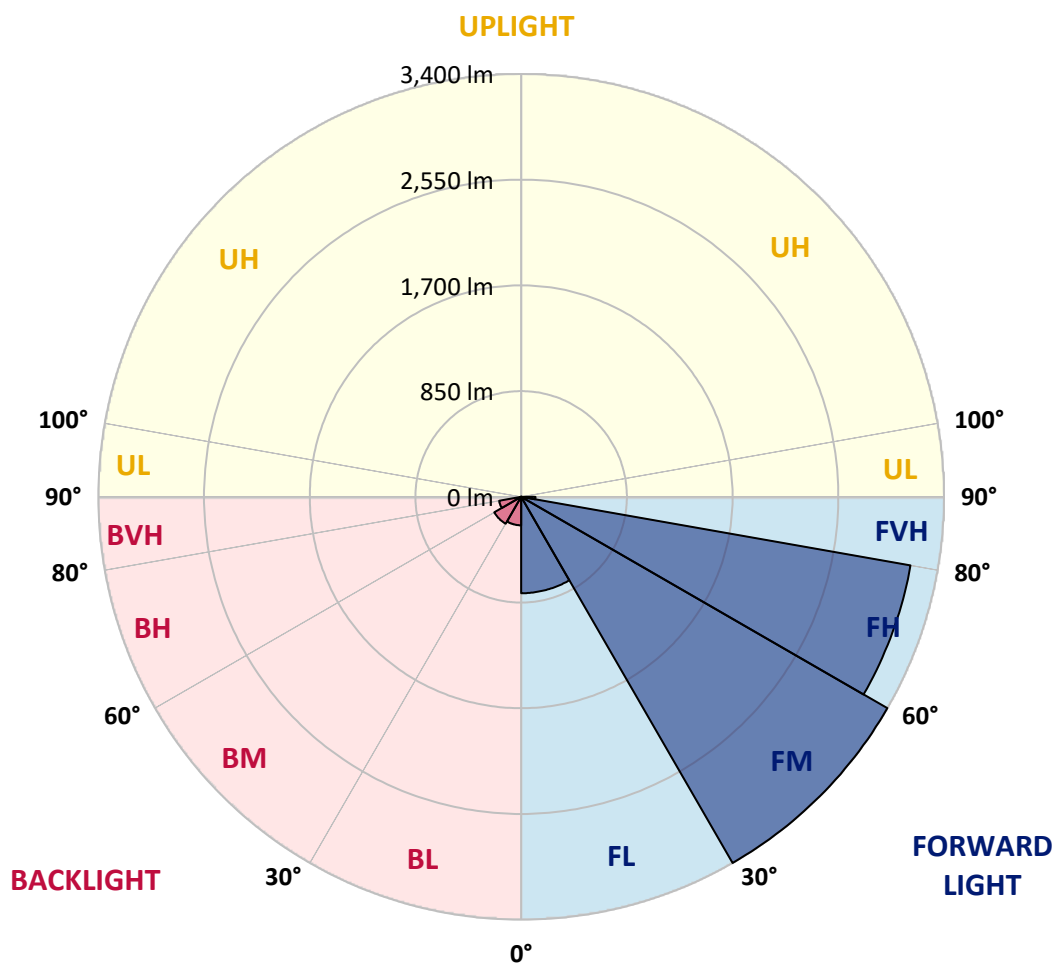
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	775.2	9.5			
FM	(30°-60°)	3400.2	41.8			
FH	(60°-80°)	3179.0	39.1			G2/5000
FVH	(80°-90°)	114.6	1.4			G2/225
BL	(0°-30°)	229.2	2.8	B1/500		
BM	(30°-60°)	249.5	3.1	B1/1000		
BH	(60°-80°)	179.8	2.2	B1/500		G1/500
BVH	(80°-90°)	3.6	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



REPORT NUMBER: P192860

CATALOG NUMBER: GLEON-AF-02-LED-E1-SL3-7030-800-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2116.4	2116.4	2116.4	2116.4	2116.4	2116.4	2116.4	2116.4	2116.4	2116.4	2116.4
2.5°	2319.7	2318.7	2308.6	2304.0	2295.7	2278.3	2251.2	2236.9	2213.9	2173.9	2120.0
5°	2298.5	2309.5	2315.5	2316.0	2322.0	2315.5	2291.1	2279.1	2247.5	2183.1	2086.6
7.5°	2155.0	2159.2	2176.2	2190.8	2219.4	2246.5	2255.2	2250.2	2231.4	2162.3	2034.1
10°	2001.4	2005.6	2025.7	2045.2	2083.8	2125.6	2169.8	2178.9	2186.8	2133.0	1983.5
12.5°	1869.0	1873.1	1893.9	1919.1	1964.3	2015.8	2084.2	2099.4	2133.9	2104.9	1943.0
15°	1755.0	1756.9	1777.1	1808.4	1862.1	1928.3	2006.1	2030.5	2083.3	2085.1	1907.6
17.5°	1658.0	1662.6	1675.1	1704.9	1763.8	1845.6	1936.2	1971.1	2033.2	2068.6	1873.1
20°	1598.7	1603.3	1602.9	1619.3	1672.2	1759.6	1866.2	1908.1	1983.5	2051.6	1842.3
22.5°	1587.2	1587.2	1575.2	1572.9	1604.3	1677.3	1793.6	1844.7	1939.0	2044.2	1820.8
25°	1628.1	1626.4	1596.4	1572.0	1573.5	1617.0	1723.2	1783.9	1901.2	2049.2	1809.3
27.5°	1714.6	1712.2	1674.5	1628.1	1590.9	1590.4	1669.9	1735.2	1871.4	2073.2	1813.8
30°	1834.1	1833.2	1792.3	1733.8	1666.3	1604.3	1651.6	1710.9	1852.1	2116.4	1824.4
32.5°	1964.7	1963.3	1932.5	1870.8	1785.4	1666.3	1670.9	1720.5	1857.5	2173.9	1850.2
35°	2103.0	2100.7	2087.4	2033.7	1939.4	1780.7	1734.3	1773.0	1892.5	2259.8	1900.8
37.5°	2252.9	2255.2	2265.0	2213.4	2114.6	1941.2	1840.6	1866.7	1962.9	2376.6	1983.0
40°	2474.1	2473.6	2476.9	2409.2	2314.1	2137.5	1989.1	1997.4	2080.6	2531.6	2108.1
42.5°	2875.4	2847.6	2762.4	2624.5	2528.8	2361.9	2176.2	2167.4	2224.4	2723.3	2283.3
45°	3414.9	3355.1	3134.4	2870.0	2747.7	2614.8	2406.6	2378.5	2414.8	2953.8	2499.5
47.5°	3878.8	3816.8	3504.5	3125.7	2979.9	2854.8	2676.5	2625.8	2637.8	3211.6	2773.4
50°	4036.5	4006.1	3733.5	3348.1	3204.7	3156.9	2989.6	2927.9	2910.8	3510.1	3091.2
52.5°	3981.7	3979.4	3797.9	3492.6	3410.7	3469.5	3383.5	3312.3	3249.8	3824.5	3414.4
55°	3894.0	3905.5	3824.1	3619.0	3616.3	3755.1	3922.4	3863.2	3682.0	4166.2	3693.1
57.5°	3651.7	3700.8	3809.4	3858.1	3971.2	4113.3	4371.3	4406.1	4191.8	4427.7	3924.3
60°	2962.9	3071.0	3426.0	3892.6	4428.8	4782.8	4912.9	4942.8	4610.3	4645.2	4236.5
62.5°	2103.0	2213.4	2663.5	3453.0	4435.6	5662.3	5719.7	5602.5	5071.0	4967.6	4774.9
65°	1116.4	1201.5	1569.3	2492.5	3845.7	5866.4	7130.8	6781.4	5883.9	5601.6	5470.6
67.5°	571.1	596.8	743.1	1219.8	2643.7	5210.8	8395.7	8641.8	7284.9	6230.6	5437.0
69°	505.4	520.5	617.6	881.8	1693.0	4413.5	8457.3	9280.4	8018.2	6178.2	4940.9
70°	489.3	502.6	590.9	798.1	1323.2	3701.2	8221.4	9224.3	8205.8	5978.6	4570.4
72.5°	415.1	426.6	526.0	705.3	1075.4	1837.3	6678.5	7816.4	7363.5	4980.5	3308.2
75°	277.7	315.4	504.9	661.1	1000.5	1043.8	4402.9	5648.4	5247.0	3359.1	1723.2
77.5°	66.6	71.7	142.6	526.0	914.9	918.7	2264.5	3511.4	2864.0	1197.3	407.3
80°	35.8	34.5	40.0	104.4	852.0	862.0	1019.4	1704.5	1022.5	198.7	134.3
82.5°	25.2	23.9	25.7	43.7	268.0	785.3	737.5	771.5	423.9	76.4	60.2
85°	9.2	8.7	14.2	39.6	84.1	451.5	757.7	636.3	343.5	35.0	44.1
87.5°	3.2	2.7	5.5	21.7	25.7	192.2	467.6	481.0	135.2	21.2	20.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P192860

CATALOG NUMBER: GLEON-AF-02-LED-E1-SL3-7030-800-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2116.4	2116.4	2116.4	2116.4	2116.4	2116.4	2116.4	2116.4	2116.4	2116.4	2116.4
2.5°	2097.6	2069.1	2016.6	1962.9	1913.1	1853.4	1823.5	1794.1	1781.7	1777.1	1755.5
5°	2036.8	1988.6	1877.3	1765.6	1662.6	1553.1	1481.0	1423.0	1389.0	1372.6	1346.3
7.5°	1959.1	1880.1	1711.3	1538.9	1378.5	1220.3	1103.1	1013.0	950.9	920.9	893.8
10°	1883.7	1778.4	1538.5	1303.5	1085.6	875.9	714.0	596.8	521.8	487.4	465.3
12.5°	1816.2	1679.7	1371.5	1074.0	800.6	554.9	390.4	297.0	250.5	234.5	226.7
15°	1755.9	1588.5	1213.9	856.1	542.2	317.3	213.4	181.6	174.3	174.3	173.4
17.5°	1698.9	1499.4	1061.7	651.5	340.3	194.1	162.4	158.2	158.2	159.9	159.9
20°	1644.3	1414.4	914.5	467.6	214.2	154.0	146.6	145.8	146.6	148.9	148.9
22.5°	1597.3	1337.2	777.1	320.9	159.1	138.9	135.2	133.9	134.3	135.6	136.6
25°	1562.4	1271.8	647.4	217.4	137.0	126.4	122.3	119.9	118.2	118.2	119.1
27.5°	1540.3	1216.6	521.8	158.2	123.3	114.9	108.5	104.8	100.7	98.5	99.3
30°	1524.1	1164.1	404.2	129.3	110.4	102.0	93.8	87.9	81.8	79.1	80.0
32.5°	1518.2	1121.9	302.1	114.0	98.9	89.7	79.5	71.7	65.3	63.1	63.5
35°	1534.3	1088.3	221.1	103.0	89.7	78.1	66.6	57.9	52.9	51.5	52.0
37.5°	1576.6	1070.4	165.5	93.8	81.4	68.5	55.6	47.3	44.1	44.1	44.6
40°	1656.6	1069.9	132.9	87.4	74.1	59.3	46.0	40.0	38.1	39.2	39.6
42.5°	1773.4	1094.3	115.9	81.4	67.6	50.6	38.1	34.0	33.6	34.5	35.0
45°	1932.9	1138.9	106.6	76.4	60.6	42.3	32.2	29.4	29.4	30.8	31.2
47.5°	2128.4	1204.1	98.9	71.2	53.7	35.4	27.6	25.7	26.2	27.6	28.1
50°	2363.9	1286.5	91.0	65.8	48.7	29.4	23.9	22.5	23.0	24.8	25.2
52.5°	2631.8	1397.3	84.5	60.6	42.3	24.4	20.2	19.3	20.2	22.1	22.5
55°	2861.7	1496.7	76.8	56.6	34.0	20.2	16.5	16.5	17.5	19.7	20.2
57.5°	3082.9	1600.5	69.9	48.7	26.7	16.1	13.7	14.2	15.7	17.9	18.3
60°	3407.5	1776.7	61.6	41.0	20.2	12.9	11.5	11.9	13.7	16.1	16.5
62.5°	3958.8	2044.7	53.3	34.0	15.7	10.2	9.2	10.2	12.4	15.2	15.7
65°	4456.2	2153.6	43.7	28.5	11.9	7.8	7.8	9.2	11.9	14.7	15.2
67.5°	4179.0	1812.9	34.0	22.5	9.2	6.0	6.4	8.7	11.5	14.7	15.2
69°	3695.8	1482.3	29.0	17.9	7.8	5.5	6.0	8.7	11.5	14.2	14.7
70°	3319.2	1251.6	25.7	15.2	6.9	5.5	6.0	8.3	11.5	14.2	14.7
72.5°	2223.1	675.9	20.6	11.0	6.4	5.0	5.0	8.3	11.0	13.7	14.2
75°	955.5	186.8	16.5	7.8	5.5	4.6	4.6	7.8	10.6	13.3	14.2
77.5°	174.7	47.3	13.3	6.9	5.5	4.6	4.2	7.3	10.2	12.9	13.3
80°	69.4	23.5	10.6	6.0	5.0	4.2	3.8	6.9	9.7	12.4	12.9
82.5°	41.8	13.3	8.7	5.5	5.0	3.8	3.2	6.0	9.2	11.9	12.4
85°	34.0	9.2	6.9	5.5	4.6	3.8	2.7	5.5	8.3	11.5	11.9
87.5°	16.5	6.4	6.4	5.0	4.6	3.8	2.7	5.0	7.8	11.0	11.5
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)