

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: P269071

Luminaire Tested: **GLEON-AF-02-LED-E1-SL2-7027-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269071
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
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-SL2-7027-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9614.6 lumens
Efficiency: N/A
Efficacy: 74.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 129
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

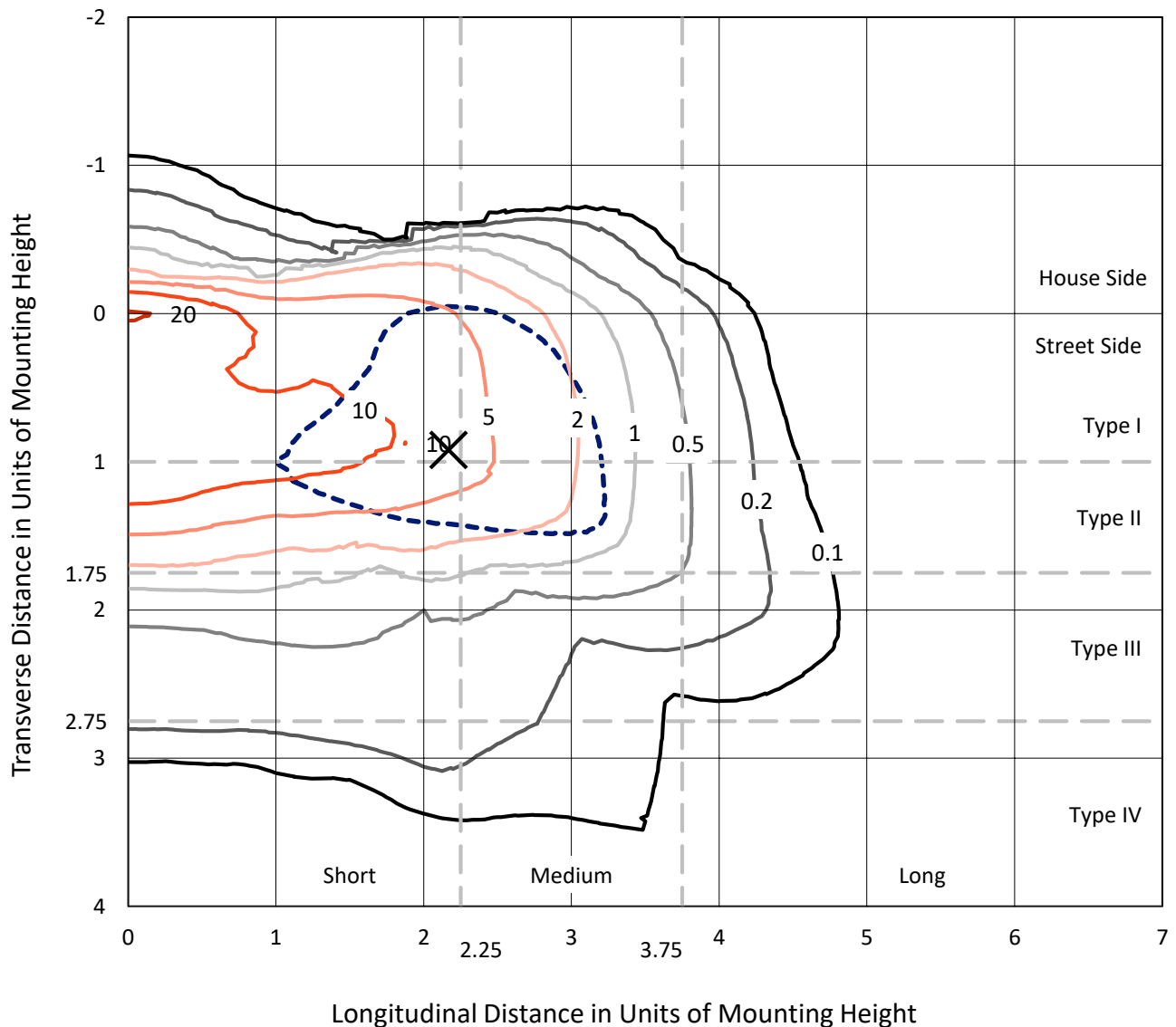


REPORT NUMBER: P269071

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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

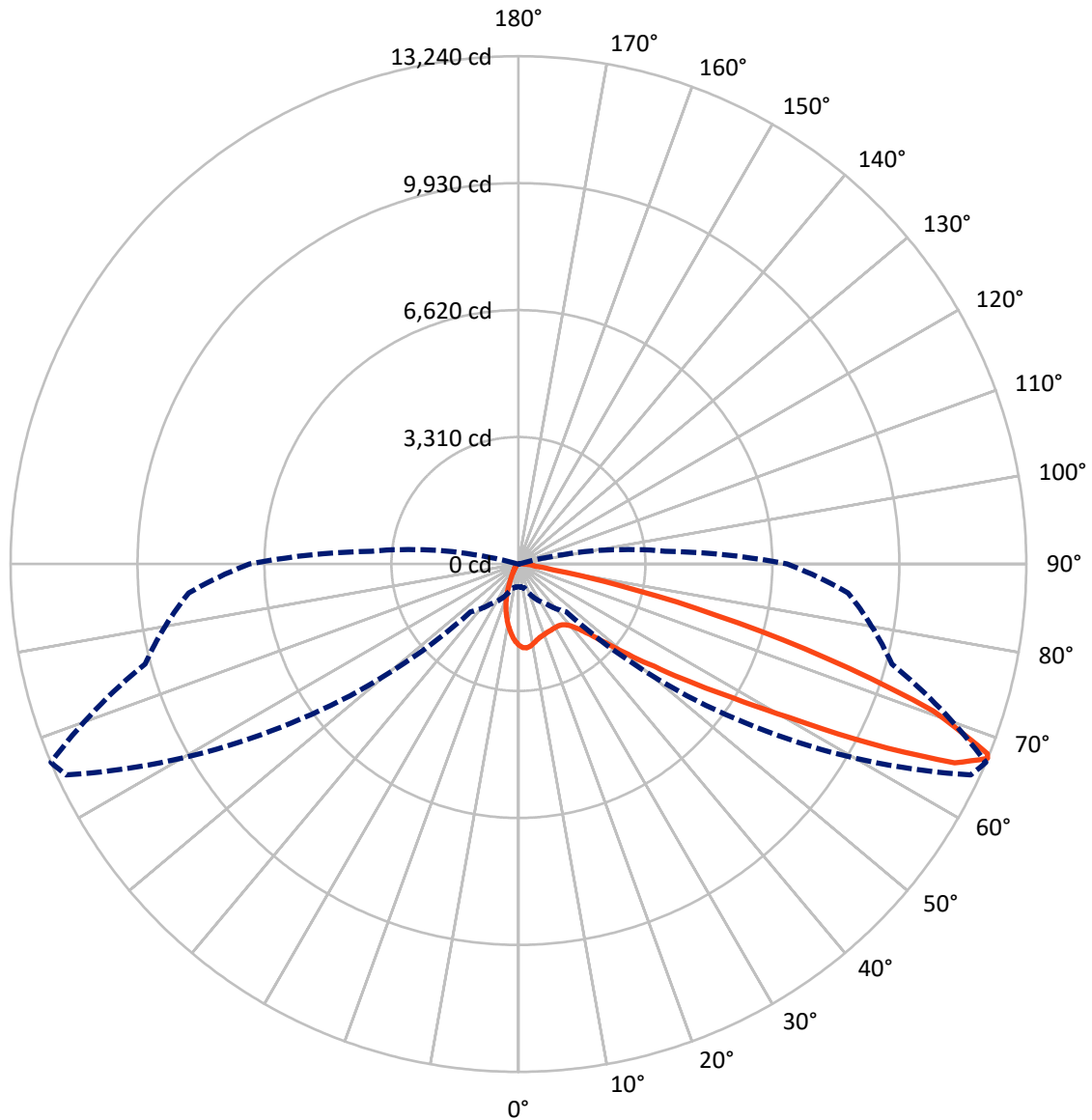


Based on 10 foot mounting height. Maximum calculated value = 21.2 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P269071

CATALOG NUMBER: GLEON-AF-02-LED-E1-SL2-7027-1200-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	998.3	0.0	998.3
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	8616.3	0.0	8616.3
	% Fixture	89.6	0.0	89.6
Total	Lumens	9614.6	0.0	9614.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.5	1.8
10°-20°	367.2	3.8
20°-30°	533.9	5.6
30°-40°	832.9	8.7
40°-50°	1475.4	15.3
50°-60°	2334.7	24.3
60°-70°	2674.1	27.8
70°-80°	1109.2	11.5
80°-90°	114.6	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°	9614.6	100.0
0°-180°	9614.6	100.0

Coefficient of Utilization



REPORT NUMBER: P269071

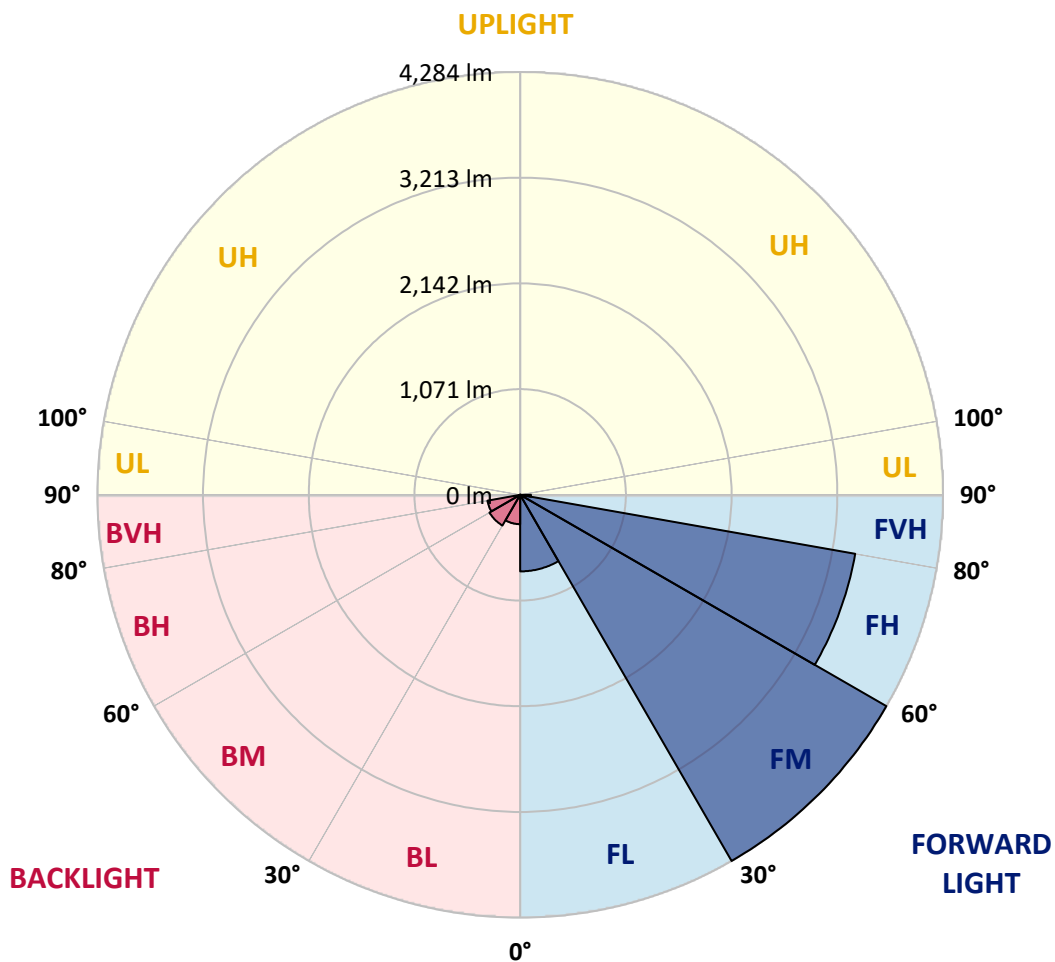
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	775.8	8.1			
FM (30°-60°)	4284.3	44.6			
FH (60°-80°)	3446.8	35.9			G2/5000
FVH (80°-90°)	109.4	1.1			G2/225
BL (0°-30°)	297.9	3.1	B1/500		
BM (30°-60°)	358.8	3.7	B1/1000		
BH (60°-80°)	336.5	3.5	B1/500		G1/500
BVH (80°-90°)	5.2	0.1			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 II Short





REPORT NUMBER: P269071

CATALOG NUMBER: GLEON-AF-02-LED-E1-SL2-7027-1200-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2120.4	2120.4	2120.4	2120.4	2120.4	2120.4	2120.4	2120.4	2120.4	2120.4	2120.4
2.5°	2192.1	2196.6	2196.0	2199.4	2207.2	2207.9	2199.9	2184.9	2181.5	2162.0	2127.6
5°	2021.6	2034.7	2042.4	2074.4	2110.3	2153.4	2185.9	2197.8	2196.0	2182.1	2130.5
7.5°	1827.1	1840.0	1848.9	1886.5	1934.2	2008.3	2093.0	2162.4	2168.6	2183.7	2128.3
10°	1697.5	1699.8	1712.1	1748.0	1797.9	1873.7	1974.6	2096.3	2114.8	2170.2	2122.7
12.5°	1591.0	1592.7	1609.0	1647.6	1700.9	1777.1	1883.1	2023.9	2052.4	2153.4	2121.4
15°	1515.4	1521.4	1536.0	1576.3	1633.1	1708.8	1817.5	1970.6	2004.8	2147.3	2131.6
17.5°	1490.1	1496.8	1501.2	1530.4	1582.1	1656.0	1767.7	1935.8	1974.6	2150.6	2151.3
20°	1516.3	1521.4	1511.4	1518.7	1550.7	1616.8	1725.6	1906.2	1952.1	2154.6	2176.5
22.5°	1614.6	1616.8	1589.3	1557.3	1551.7	1588.2	1692.4	1882.6	1932.0	2165.3	2206.1
25°	1782.7	1778.9	1734.0	1665.0	1599.9	1583.2	1672.9	1868.0	1921.8	2176.5	2237.0
27.5°	1985.8	1991.5	1929.6	1829.3	1705.4	1616.8	1670.0	1861.8	1917.3	2184.3	2264.0
30°	2232.6	2240.5	2169.8	2043.6	1865.8	1699.8	1695.8	1860.7	1914.6	2179.3	2266.2
32.5°	2484.4	2493.9	2438.4	2308.3	2079.9	1838.8	1754.2	1873.1	1920.1	2162.0	2253.3
35°	2747.9	2761.4	2724.4	2612.7	2370.4	2039.6	1856.7	1910.7	1946.5	2160.2	2240.5
37.5°	3111.9	3124.1	3054.6	2936.3	2722.1	2308.9	2021.6	1981.3	2008.8	2187.2	2243.7
40°	3655.3	3653.5	3474.1	3292.9	3108.4	2650.9	2253.3	2109.2	2123.1	2268.4	2285.3
42.5°	4247.5	4244.8	3979.4	3704.2	3537.5	3072.1	2557.8	2330.2	2320.6	2418.1	2392.9
45°	4704.0	4703.3	4486.9	4176.8	4054.1	3555.4	2951.6	2637.5	2622.8	2661.6	2591.4
47.5°	4898.5	4902.0	4793.1	4575.0	4626.6	4209.4	3447.8	3082.8	3060.9	3045.2	2938.5
50°	4747.2	4753.9	4762.9	4720.2	5046.6	5088.1	4113.5	3710.2	3699.6	3629.5	3463.0
52.5°	4252.5	4286.7	4392.2	4527.3	5192.5	5931.6	5157.1	4489.8	4432.5	4357.9	4174.6
55°	3419.2	3456.8	3657.0	3985.1	4975.4	6485.7	6619.6	5494.8	5399.4	5176.8	4912.0
57.5°	2262.8	2321.1	2611.6	3028.8	4345.0	6574.8	8078.8	6889.5	6557.4	5947.8	5649.5
60°	1246.7	1302.7	1617.8	1995.9	3138.1	6133.9	9060.2	8705.3	8118.6	6809.7	6545.1
62.5°	767.7	798.1	1030.7	1382.3	1881.9	4841.3	9263.2	10987.1	10308.1	7919.5	7626.8
65°	611.2	624.1	738.0	1130.0	1349.3	2879.6	8607.6	12726.6	12500.2	9263.2	8595.3
67°	593.3	598.5	652.2	970.2	1271.9	1765.3	7211.2	13010.0	13239.8	10076.4	8625.6
67.5°	597.3	602.9	653.8	925.9	1269.7	1622.3	6730.1	12898.4	13188.8	10140.8	8491.6
70°	576.0	593.3	748.6	925.3	1207.4	1348.1	4030.4	11175.5	11477.9	9422.5	7205.1
72.5°	204.2	205.3	323.6	748.6	1312.9	1362.6	2023.9	8192.7	8416.4	7207.9	5194.7
75°	121.1	103.1	107.6	213.1	1254.6	1323.6	1167.5	5235.1	5318.5	4130.2	2630.6
77.5°	83.5	72.9	75.2	94.2	477.8	1305.0	927.6	2729.9	2640.7	1448.5	560.3
80°	47.7	42.1	44.8	82.5	173.8	1217.6	874.8	1107.0	943.8	245.6	154.8
82.5°	25.2	21.3	25.8	67.8	121.1	758.8	876.6	535.0	424.0	83.1	105.5
85°	9.0	7.2	12.3	46.5	80.8	232.8	812.5	449.7	353.4	40.3	80.2
87.5°	1.6	1.6	5.0	19.0	32.5	71.2	480.7	266.9	178.9	24.2	54.9
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°	2120.4	2120.4	2120.4	2120.4	2120.4	2120.4	2120.4	2120.4	2120.4	2120.4	2120.4
2.5°	2113.6	2089.5	2056.9	2017.1	1970.2	1928.7	1897.7	1865.8	1859.0	1847.9	1846.1
5°	2099.6	2058.1	1977.3	1884.9	1786.1	1697.0	1624.7	1560.1	1531.5	1506.8	1504.0
7.5°	2078.9	2016.7	1879.3	1730.0	1575.8	1435.6	1316.7	1232.7	1155.2	1118.2	1112.6
10°	2054.8	1965.6	1768.8	1561.9	1348.7	1150.8	974.1	826.0	736.3	683.0	676.3
12.5°	2032.3	1915.6	1656.0	1387.4	1104.1	839.6	612.4	471.2	376.8	338.8	334.2
15°	2021.6	1875.3	1550.7	1209.1	848.4	534.4	334.8	259.2	228.3	219.2	218.6
17.5°	2020.6	1841.0	1447.3	1024.5	594.5	310.6	218.2	199.1	193.0	190.7	190.7
20°	2020.0	1808.6	1344.3	833.4	377.4	206.9	181.6	177.2	172.7	169.9	169.9
22.5°	2026.1	1779.5	1236.5	638.2	237.8	167.7	159.8	155.3	149.7	145.9	145.3
25°	2032.3	1756.9	1126.7	454.3	172.1	145.9	138.0	131.8	124.0	118.8	118.3
27.5°	2033.5	1729.0	1008.8	303.9	144.1	127.3	117.1	107.6	98.8	93.7	93.1
30°	2016.7	1681.8	878.3	205.3	127.3	110.5	96.9	87.0	78.5	74.6	74.6
32.5°	1983.5	1623.4	734.6	154.8	113.2	94.9	80.2	70.6	65.0	63.4	62.8
35°	1953.9	1560.6	587.1	131.2	101.5	80.2	65.7	59.5	56.1	55.5	54.9
37.5°	1936.4	1510.2	448.7	118.8	90.3	67.4	55.5	51.1	49.3	48.1	48.8
40°	1950.0	1468.2	331.5	108.8	79.1	56.1	47.2	44.8	43.2	42.6	42.6
42.5°	2008.8	1460.9	246.1	99.8	68.5	46.5	41.0	39.3	38.2	37.5	38.2
45°	2163.6	1505.6	191.2	91.4	57.9	39.3	34.8	34.2	33.6	33.6	33.6
47.5°	2396.3	1598.3	159.3	81.8	48.1	33.6	30.4	29.7	29.1	29.7	29.7
50°	2790.6	1767.7	142.4	72.4	39.9	28.6	25.8	25.8	25.8	25.8	26.4
52.5°	3390.1	2100.7	131.2	62.8	32.5	24.2	21.9	21.9	22.5	22.5	22.9
55°	4058.0	2542.7	121.1	53.3	27.5	20.2	18.0	18.5	19.0	19.7	19.7
57.5°	4782.4	3032.1	112.6	43.7	23.5	16.3	15.1	15.7	16.3	17.3	17.3
60°	5656.7	3562.1	100.4	34.2	19.7	12.8	11.8	12.8	14.6	15.7	16.3
62.5°	6616.8	4074.7	84.7	26.9	16.3	10.2	9.5	11.8	14.1	15.1	15.7
65°	7272.9	4235.7	65.0	21.9	12.3	7.2	7.8	10.7	13.5	15.1	15.1
67°	7007.1	3840.3	53.3	18.5	10.2	5.6	7.2	10.7	13.5	14.6	15.1
67.5°	6822.6	3685.6	51.1	18.0	9.5	5.6	7.2	10.7	13.5	15.1	15.1
70°	5551.3	2768.7	42.6	13.5	7.8	5.0	6.2	10.2	12.8	14.6	14.6
72.5°	3857.1	1707.0	38.2	9.5	6.7	4.5	5.6	9.5	12.3	14.1	14.6
75°	1833.8	618.0	32.5	7.2	6.2	4.0	5.0	9.5	12.3	14.1	14.1
77.5°	374.1	143.5	26.4	6.2	5.0	4.0	4.5	9.0	11.8	13.5	13.5
80°	122.8	55.5	19.7	5.6	5.0	4.0	4.5	8.4	11.8	12.8	13.5
82.5°	88.7	28.0	12.8	5.6	5.0	4.0	4.0	8.4	11.1	12.8	12.8
85°	67.8	19.7	8.4	5.6	5.0	4.0	4.0	7.8	10.7	12.3	12.3
87.5°	44.8	7.8	6.7	5.6	5.0	4.0	4.0	7.8	10.2	11.8	12.3
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)