

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: P192790

Luminaire Tested: **GLEON-AF-02-LED-E1-SL2-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192790
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-SL2-7030-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1050mA 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: 9755.8 lumens
Efficiency: N/A
Efficacy: 86.3 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): 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

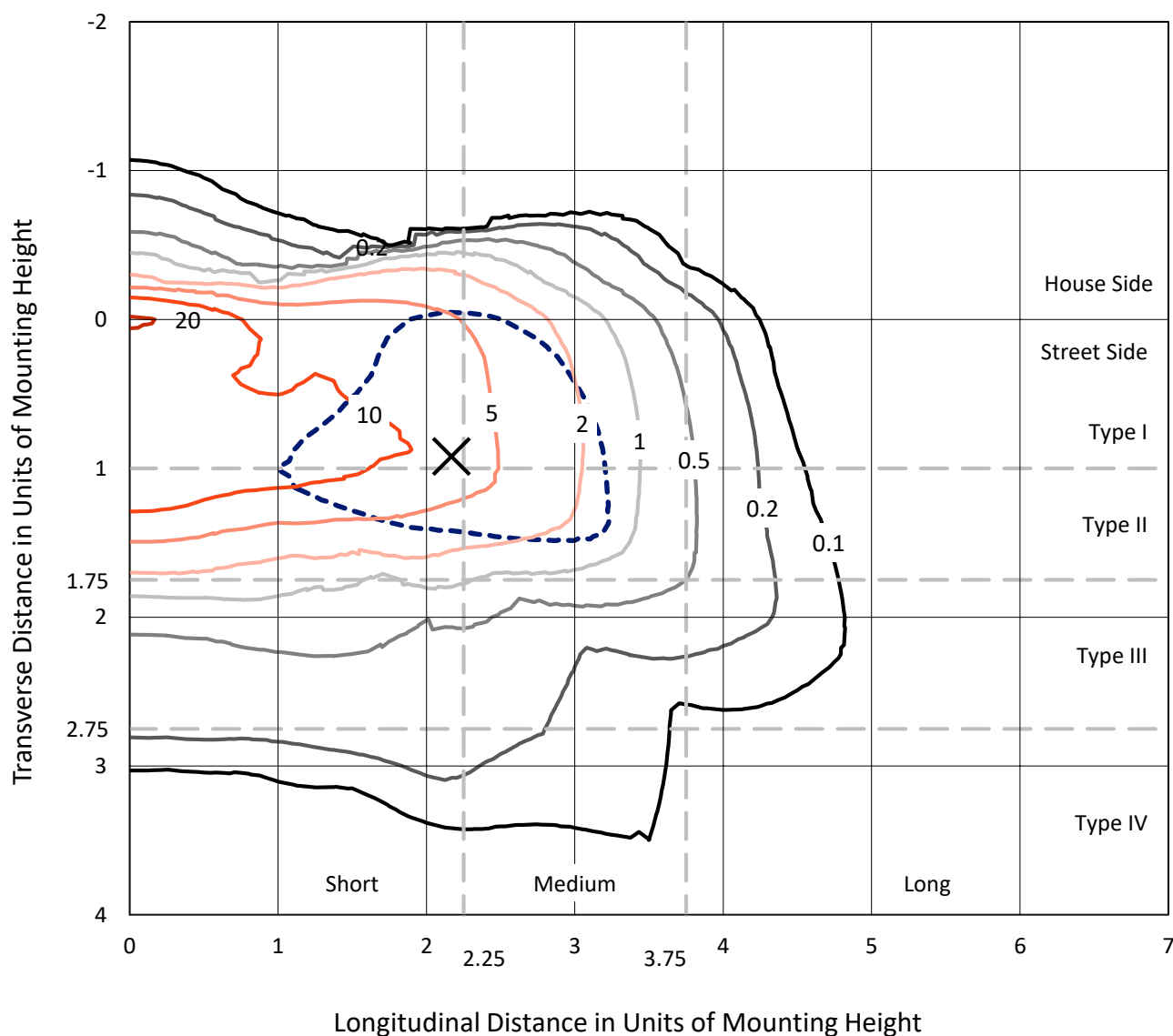


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

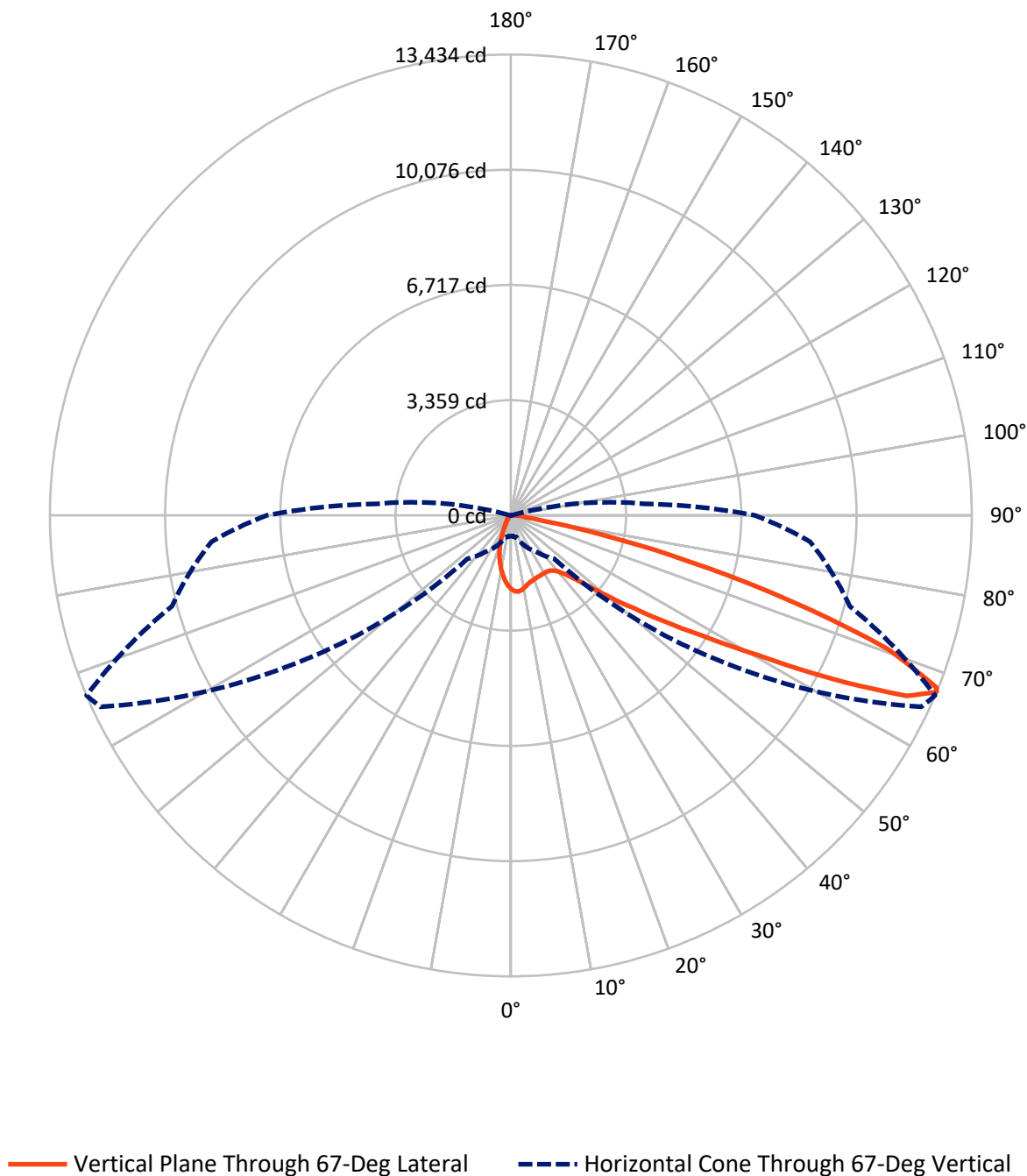


Based on 10 foot mounting height. Maximum calculated value = 21.5 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1012.9	0.0	1012.9
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	8742.8	0.0	8742.8
	% Fixture	89.6	0.0	89.6
Total	Lumens	9755.8	0.0	9755.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.1	1.8
10°-20°	372.6	3.8
20°-30°	541.7	5.6
30°-40°	845.1	8.7
40°-50°	1497.1	15.3
50°-60°	2369.0	24.3
60°-70°	2713.4	27.8
70°-80°	1125.5	11.5
80°-90°	116.3	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°	9755.8	100.0
0°-180°	9755.8	100.0

Coefficient of Utilization



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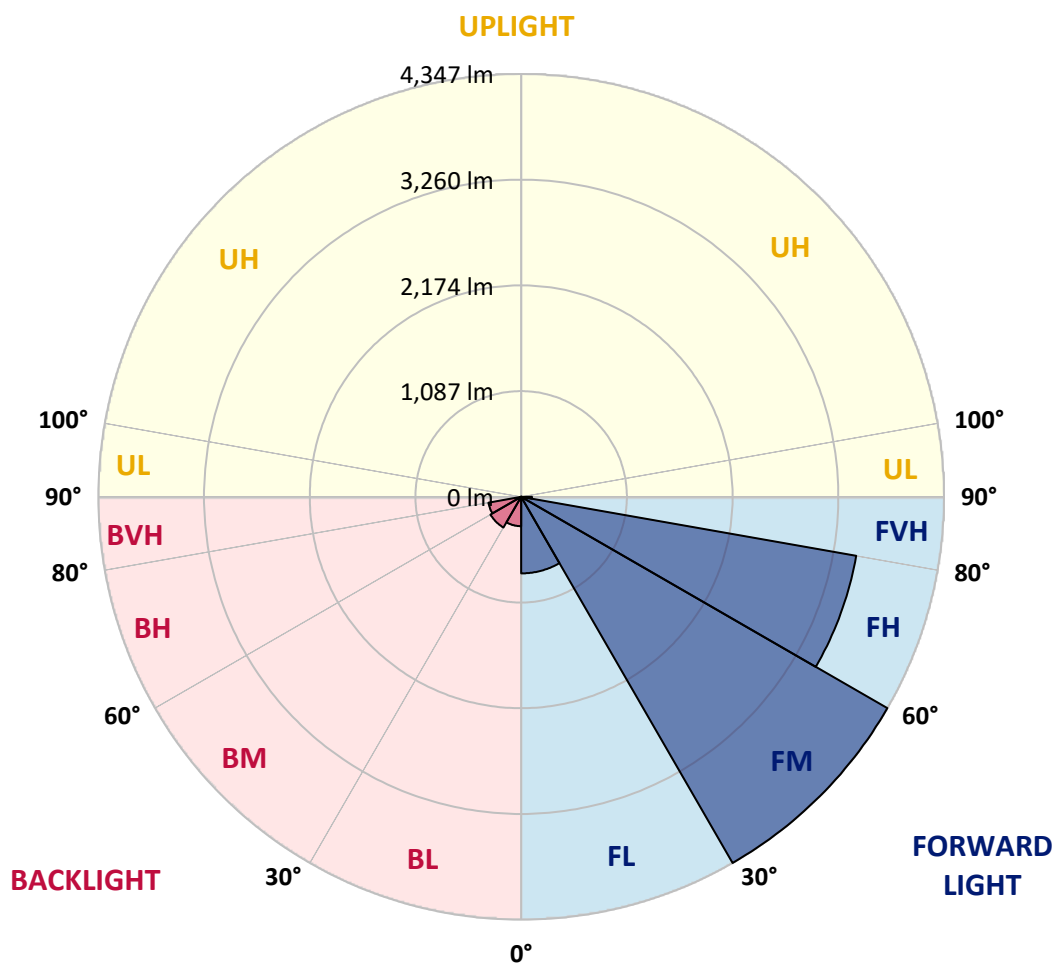
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	787.1	8.1			
FM	(30°-60°)	4347.2	44.6			
FH	(60°-80°)	3497.5	35.9			G2/5000
FVH	(80°-90°)	111.0	1.1			G2/225
BL	(0°-30°)	302.3	3.1	B1/500		
BM	(30°-60°)	364.0	3.7	B1/1000		
BH	(60°-80°)	341.4	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2151.6	2151.6	2151.6	2151.6	2151.6	2151.6	2151.6	2151.6	2151.6	2151.6	2151.6
2.5°	2224.3	2228.9	2228.4	2231.7	2239.7	2240.3	2232.2	2217.0	2213.5	2193.6	2158.9
5°	2051.4	2064.5	2072.4	2104.9	2141.3	2185.0	2218.1	2230.0	2228.4	2214.1	2161.7
7.5°	1853.9	1867.0	1876.1	1914.2	1962.7	2037.6	2123.7	2194.2	2200.5	2215.8	2159.5
10°	1722.5	1724.7	1737.2	1773.8	1824.3	1901.1	2003.6	2127.1	2145.9	2202.1	2153.8
12.5°	1614.3	1616.1	1632.6	1671.7	1725.9	1803.3	1910.8	2053.6	2082.7	2185.0	2152.6
15°	1537.5	1543.9	1558.6	1599.5	1657.0	1733.8	1844.2	1999.6	2034.3	2178.8	2162.9
17.5°	1511.9	1518.7	1523.3	1552.9	1605.2	1680.3	1793.6	1964.3	2003.6	2182.2	2182.8
20°	1538.7	1543.9	1533.6	1540.9	1573.4	1640.5	1750.9	1934.1	1980.8	2186.2	2208.4
22.5°	1638.3	1640.5	1612.6	1580.2	1574.5	1611.5	1717.3	1910.3	1960.3	2196.9	2238.6
25°	1808.9	1805.0	1759.4	1689.4	1623.5	1606.3	1697.5	1895.4	1950.1	2208.4	2269.9
27.5°	2015.0	2020.6	1958.0	1856.2	1730.4	1640.5	1694.6	1889.2	1945.5	2216.4	2297.1
30°	2265.3	2273.2	2201.6	2073.5	1893.1	1724.7	1720.8	1888.0	1942.6	2211.3	2299.5
32.5°	2520.8	2530.5	2474.1	2342.1	2110.6	1865.8	1780.0	1900.6	1948.3	2193.6	2286.4
35°	2788.3	2802.0	2764.4	2651.0	2405.4	2069.6	1884.0	1938.7	1975.1	2192.0	2273.2
37.5°	3157.6	3170.0	3099.4	2979.4	2762.1	2342.7	2051.4	2010.4	2038.2	2219.3	2276.8
40°	3709.0	3707.2	3525.1	3341.3	3154.1	2689.9	2286.4	2140.2	2154.4	2301.8	2318.8
42.5°	4309.8	4307.0	4037.9	3758.4	3589.5	3117.1	2595.4	2364.4	2354.6	2453.6	2428.1
45°	4773.0	4772.5	4552.9	4238.1	4113.5	3607.6	2994.8	2676.2	2661.3	2700.7	2629.6
47.5°	4970.5	4973.9	4863.4	4642.1	4694.6	4271.2	3498.4	3128.0	3105.8	3089.9	2981.6
50°	4816.8	4823.7	4832.7	4789.5	5120.7	5162.8	4173.8	3764.7	3753.9	3682.8	3513.8
52.5°	4314.9	4349.7	4456.6	4593.8	5268.7	6018.6	5232.8	4555.7	4497.6	4421.9	4235.9
55°	3469.4	3507.6	3710.7	4043.5	5048.5	6580.8	6716.8	5575.4	5478.6	5252.7	4984.2
57.5°	2296.1	2355.2	2650.0	3073.4	4408.8	6671.4	8197.5	6990.5	6653.7	6035.2	5732.4
60°	1265.0	1321.8	1641.6	2025.2	3184.3	6224.1	9193.3	8833.1	8237.8	6909.8	6641.1
62.5°	779.0	809.7	1045.8	1402.7	1909.7	4912.4	9399.2	11148.5	10459.4	8035.8	7738.9
65°	620.3	633.3	748.9	1146.5	1369.1	2921.9	8734.0	12913.6	12683.7	9399.2	8721.5
67°	602.0	607.2	661.8	984.4	1290.6	1791.3	7317.2	13200.9	13434.3	10224.4	8752.2
67.5°	606.1	611.8	663.5	939.5	1288.2	1646.2	6828.9	13087.7	13382.5	10289.8	8616.3
70°	584.4	602.0	759.7	938.9	1225.2	1367.9	4089.6	11339.7	11646.4	9560.8	7310.9
72.5°	207.1	208.2	328.4	759.7	1332.1	1382.7	2053.6	8313.0	8540.0	7313.7	5270.8
75°	122.9	104.7	109.3	216.3	1272.9	1342.9	1184.7	5311.8	5396.7	4190.8	2669.3
77.5°	84.7	74.0	76.3	95.6	484.8	1324.1	941.2	2770.0	2679.6	1469.7	568.4
80°	48.4	42.7	45.6	83.7	176.5	1235.4	887.7	1123.3	957.6	249.2	157.0
82.5°	25.5	21.7	26.2	68.9	122.9	769.9	889.4	542.9	430.2	84.2	107.0
85°	9.1	7.4	12.6	47.2	82.0	236.1	824.6	456.3	358.5	41.0	81.4
87.5°	1.7	1.7	5.1	19.3	33.0	72.2	487.7	270.9	181.5	24.5	55.7
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°	2151.6	2151.6	2151.6	2151.6	2151.6	2151.6	2151.6	2151.6	2151.6	2151.6	2151.6
2.5°	2144.6	2120.1	2087.2	2046.8	1999.0	1957.0	1925.5	1893.1	1886.4	1875.0	1873.2
5°	2130.4	2088.4	2006.4	1912.5	1812.4	1721.9	1648.5	1583.0	1554.0	1529.0	1526.2
7.5°	2109.4	2046.2	1906.8	1755.5	1599.0	1456.8	1336.1	1250.7	1172.3	1134.6	1128.9
10°	2084.8	1994.4	1794.7	1584.7	1368.5	1167.7	988.4	838.1	747.2	693.0	686.2
12.5°	2062.2	1943.8	1680.3	1407.8	1120.5	851.7	621.3	478.0	382.4	343.7	339.1
15°	2051.4	1902.9	1573.4	1226.9	861.0	542.3	339.7	262.9	231.6	222.5	221.9
17.5°	2050.2	1868.2	1468.7	1039.6	603.2	315.2	221.4	202.0	195.8	193.5	193.5
20°	2049.6	1835.1	1364.0	845.5	383.0	210.0	184.3	179.8	175.3	172.4	172.4
22.5°	2055.9	1805.5	1254.8	647.6	241.3	170.1	162.1	157.7	152.0	147.9	147.4
25°	2062.2	1782.8	1143.2	461.0	174.7	147.9	140.0	133.8	125.7	120.6	120.0
27.5°	2063.3	1754.3	1023.6	308.4	146.2	129.2	118.9	109.3	100.2	95.0	94.5
30°	2046.2	1706.5	891.1	208.2	129.2	112.1	98.5	88.2	79.6	75.7	75.7
32.5°	2012.7	1647.3	745.4	157.0	114.9	96.1	81.4	71.7	66.0	64.4	63.7
35°	1982.5	1583.6	595.8	133.2	103.0	81.4	66.5	60.3	57.0	56.4	55.7
37.5°	1964.8	1532.4	455.2	120.6	91.7	68.3	56.4	51.8	50.0	48.9	49.5
40°	1978.4	1489.8	336.3	110.4	80.2	57.0	47.7	45.6	43.8	43.2	43.2
42.5°	2038.2	1482.3	249.7	101.3	69.4	47.2	41.5	39.9	38.7	38.1	38.7
45°	2195.3	1527.9	194.1	92.8	58.6	39.9	35.3	34.8	34.1	34.1	34.1
47.5°	2431.4	1621.7	161.6	83.0	48.9	34.1	30.7	30.1	29.6	30.1	30.1
50°	2831.5	1793.6	144.5	73.4	40.4	29.1	26.2	26.2	26.2	26.2	26.8
52.5°	3439.8	2131.5	133.2	63.7	33.0	24.5	22.2	22.2	22.7	22.7	23.4
55°	4117.6	2579.9	122.9	54.1	27.9	20.4	18.2	18.8	19.3	19.8	19.8
57.5°	4852.6	3076.7	114.4	44.4	23.9	16.5	15.4	16.0	16.5	17.6	17.6
60°	5739.8	3614.6	101.8	34.8	19.8	13.1	11.9	13.1	14.7	16.0	16.5
62.5°	6714.0	4134.6	85.9	27.4	16.5	10.3	9.8	11.9	14.2	15.4	16.0
65°	7379.8	4297.9	66.0	22.2	12.6	7.4	7.9	10.8	13.6	15.4	15.4
67°	7110.0	3896.7	54.1	18.8	10.3	5.7	7.4	10.8	13.6	14.7	15.4
67.5°	6922.7	3739.6	51.8	18.2	9.8	5.7	7.4	10.8	13.6	15.4	15.4
70°	5632.9	2809.3	43.2	13.6	7.9	5.1	6.2	10.3	13.1	14.7	14.7
72.5°	3913.7	1732.1	38.7	9.8	6.8	4.6	5.7	9.8	12.6	14.2	14.7
75°	1860.6	627.0	33.0	7.4	6.2	4.0	5.1	9.8	12.6	14.2	14.2
77.5°	379.5	145.7	26.8	6.2	5.1	4.0	4.6	9.1	11.9	13.6	13.6
80°	124.7	56.4	19.8	5.7	5.1	4.0	4.6	8.5	11.9	13.1	13.6
82.5°	89.9	28.4	13.1	5.7	5.1	4.0	4.0	8.5	11.4	13.1	13.1
85°	68.9	19.8	8.5	5.7	5.1	4.0	4.0	7.9	10.8	12.6	12.6
87.5°	45.6	7.9	6.8	5.7	5.1	4.0	4.0	7.9	10.3	11.9	12.6
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)