

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: P269155

Luminaire Tested: **GLEON-AF-03-LED-E1-SL3-7027-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269155
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-03-LED-E1-SL3-7027-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 615mA 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: 8887.3 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

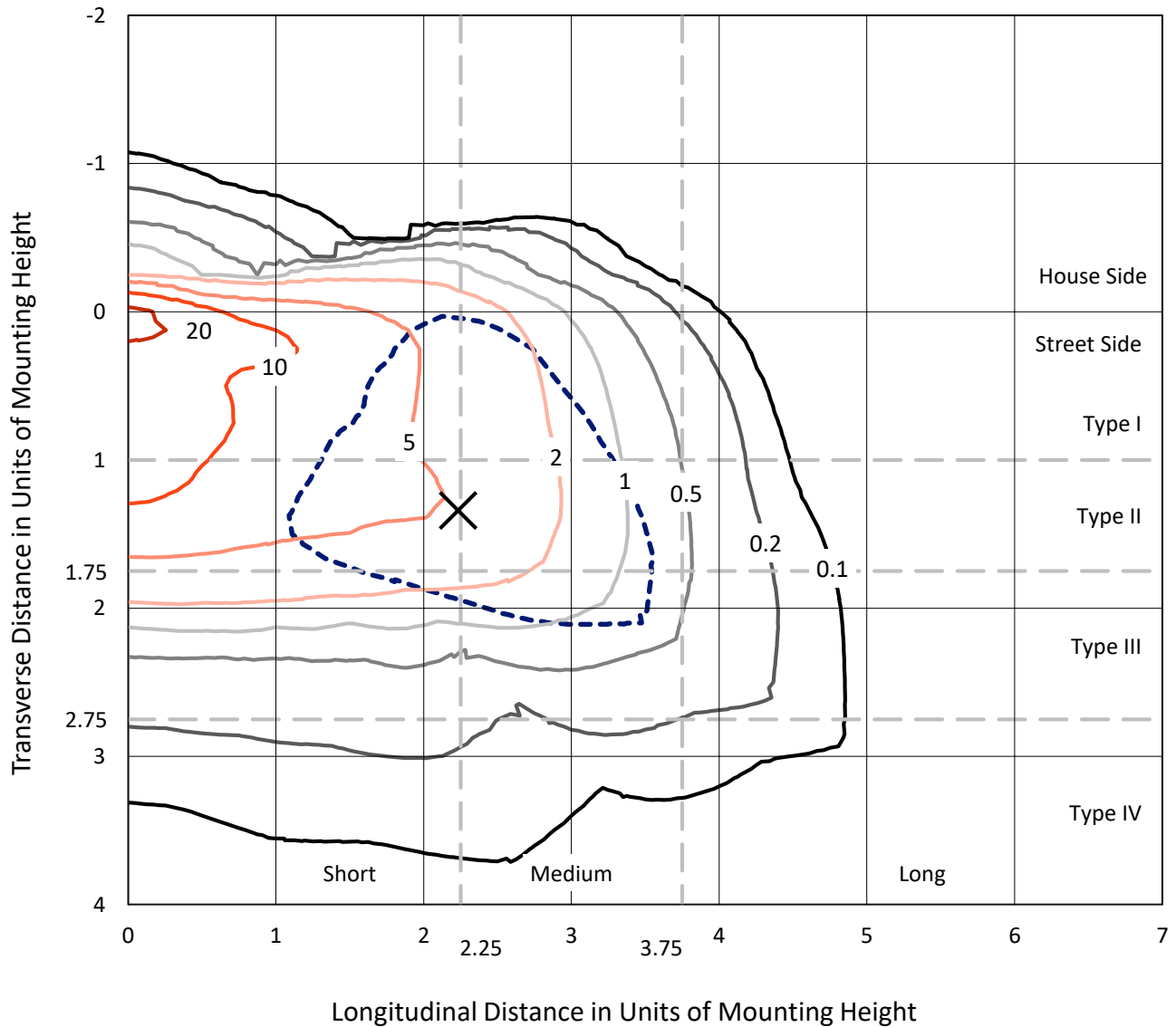
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

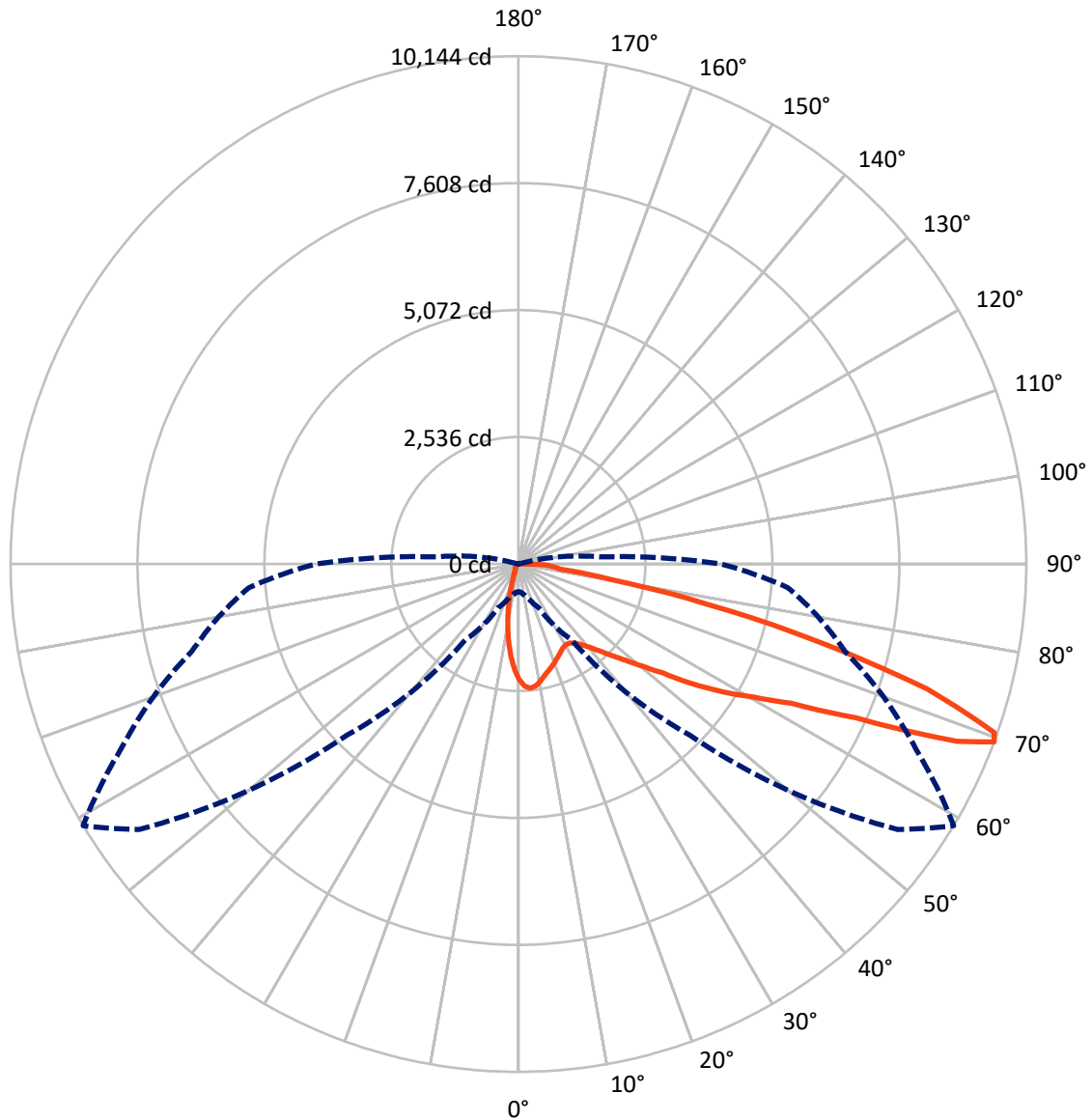


Based on 10 foot mounting height. Maximum calculated value = 23.2 fc
 Type III - Short - Non-Cutoff

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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	723.7	0.0	723.7
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	8163.5	0.0	8163.5
	% Fixture	91.9	0.0	91.9
Total	Lumens	8887.3	0.0	8887.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.8	2.1
10°-20°	388.0	4.4
20°-30°	522.1	5.9
30°-40°	758.0	8.5
40°-50°	1262.2	14.2
50°-60°	1969.0	22.2
60°-70°	2436.4	27.4
70°-80°	1234.7	13.9
80°-90°	129.2	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°	8887.3	100.0
0°-180°	8887.3	100.0



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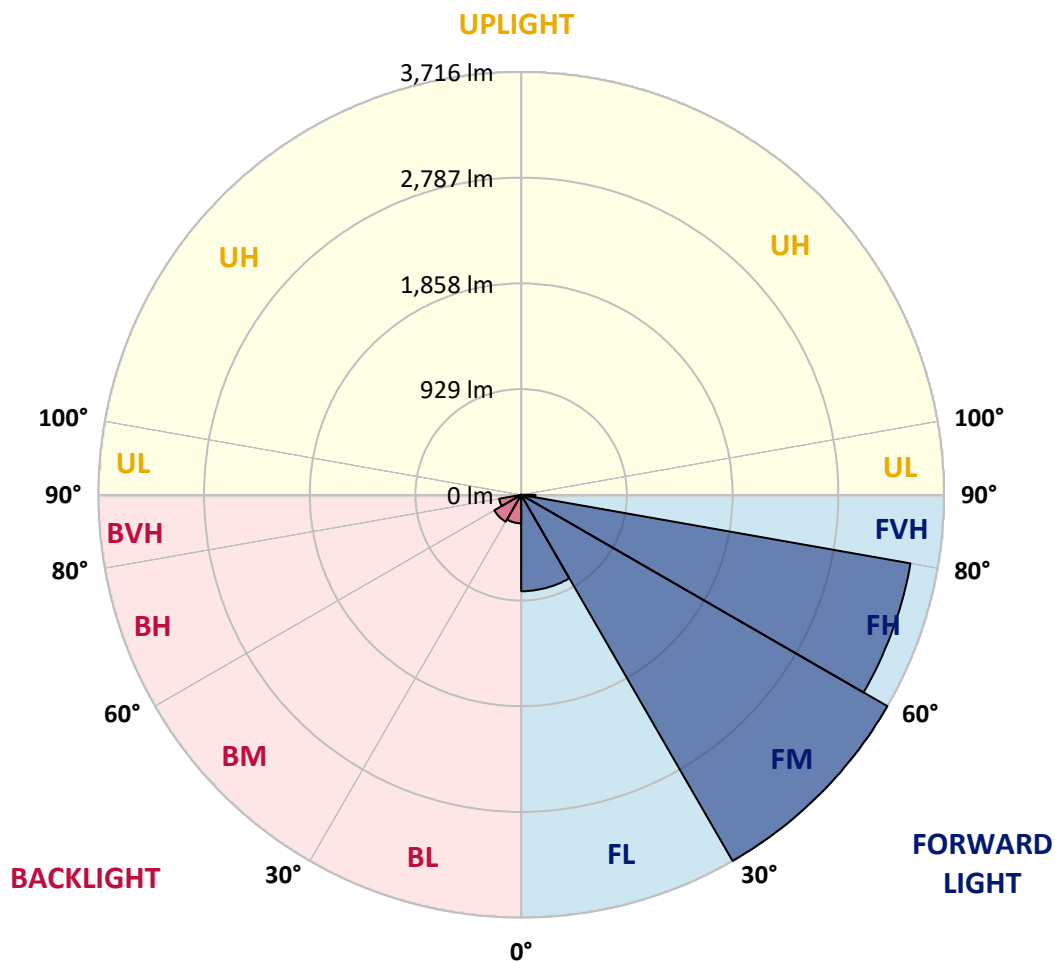
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	847.3	9.5			
FM	(30°-60°)	3716.4	41.8			
FH	(60°-80°)	3474.6	39.1			G2/5000
FVH	(80°-90°)	125.2	1.4			G2/225
BL	(0°-30°)	250.5	2.8	B1/500		
BM	(30°-60°)	272.7	3.1	B1/1000		
BH	(60°-80°)	196.5	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°	2313.2	2313.2	2313.2	2313.2	2313.2	2313.2	2313.2	2313.2	2313.2	2313.2	2313.2
2.5°	2535.3	2534.4	2523.2	2518.3	2509.2	2490.1	2460.5	2444.8	2419.8	2376.0	2317.3
5°	2512.3	2524.2	2530.9	2531.3	2537.9	2530.9	2504.3	2491.2	2456.4	2386.1	2280.5
7.5°	2355.4	2359.9	2378.6	2394.6	2425.9	2455.4	2464.9	2459.5	2438.9	2363.5	2223.2
10°	2187.6	2192.1	2214.2	2235.3	2277.6	2323.2	2371.5	2381.5	2390.1	2331.3	2168.0
12.5°	2042.8	2047.3	2070.1	2097.6	2146.9	2203.3	2278.0	2294.6	2332.3	2300.6	2123.9
15°	1918.2	1920.2	1942.3	1976.5	2035.3	2107.8	2192.7	2219.3	2277.1	2279.1	2085.1
17.5°	1812.2	1817.2	1830.7	1863.4	1927.9	2017.2	2116.2	2154.4	2222.2	2260.9	2047.3
20°	1747.4	1752.5	1751.9	1770.0	1827.8	1923.4	2039.8	2085.5	2168.0	2242.3	2013.7
22.5°	1734.7	1734.7	1721.7	1719.3	1753.4	1833.4	1960.5	2016.2	2119.2	2234.4	1990.1
25°	1779.5	1777.6	1744.9	1718.2	1719.7	1767.4	1883.6	1950.0	2078.0	2239.8	1977.6
27.5°	1874.0	1871.4	1830.2	1779.5	1738.8	1738.3	1825.3	1896.6	2045.4	2266.1	1982.6
30°	2004.7	2003.7	1958.9	1895.2	1821.3	1753.4	1805.1	1870.0	2024.3	2313.2	1994.1
32.5°	2147.4	2146.0	2112.3	2044.9	1951.4	1821.3	1826.3	1880.5	2030.3	2376.0	2022.3
35°	2298.7	2296.2	2281.5	2222.8	2119.8	1946.4	1895.7	1937.9	2068.4	2470.0	2077.5
37.5°	2462.6	2464.9	2475.5	2419.2	2311.2	2121.7	2011.8	2040.4	2145.4	2597.7	2167.5
40°	2704.3	2703.7	2707.2	2633.4	2529.4	2336.3	2174.1	2183.2	2274.1	2767.0	2304.2
42.5°	3143.0	3112.3	3019.4	2868.6	2764.1	2581.5	2378.6	2369.0	2431.4	2976.7	2495.8
45°	3732.5	3667.2	3425.9	3136.9	3003.3	2858.0	2630.3	2599.8	2639.4	3228.4	2731.8
47.5°	4239.6	4171.6	3830.5	3416.3	3257.1	3120.4	2925.3	2870.1	2883.1	3510.3	3031.4
50°	4411.8	4378.7	4080.7	3659.5	3502.9	3450.5	3267.6	3200.2	3181.6	3836.5	3378.6
52.5°	4352.1	4349.7	4151.1	3817.3	3728.0	3792.3	3698.3	3620.3	3552.1	4180.3	3732.0
55°	4256.1	4268.7	4179.8	3955.5	3952.5	4104.4	4287.3	4222.5	4024.4	4553.6	4036.5
57.5°	3991.3	4045.1	4163.6	4217.0	4340.5	4495.8	4777.7	4816.0	4581.7	4839.6	4289.2
60°	3238.4	3356.5	3744.6	4254.6	4840.5	5227.5	5369.8	5402.4	5039.1	5077.3	4630.6
62.5°	2298.7	2419.2	2911.2	3774.1	4848.2	6189.0	6251.8	6123.6	5542.6	5429.5	5219.1
65°	1220.2	1313.1	1715.3	2724.3	4203.3	6412.0	7794.1	7412.2	6431.1	6122.6	5979.4
67.5°	624.1	652.3	812.1	1333.3	2889.7	5695.4	9176.5	9445.5	7962.4	6810.1	5942.6
69°	552.3	568.8	674.9	963.9	1850.4	4824.0	9243.9	10143.5	8764.0	6752.7	5400.4
70°	534.8	549.4	645.8	872.4	1446.4	4045.5	8986.1	10082.1	8969.0	6534.7	4995.4
72.5°	453.9	466.4	574.9	770.9	1175.4	2008.3	7299.5	8543.4	8048.4	5443.5	3615.9
75°	303.5	344.8	551.7	722.6	1093.5	1140.8	4812.4	6173.8	5735.0	3671.6	1883.6
77.5°	72.9	78.4	155.8	574.9	1000.1	1004.0	2475.1	3838.0	3130.5	1308.7	445.3
80°	39.2	37.6	43.7	114.1	931.3	942.3	1114.2	1862.9	1117.8	217.1	146.8
82.5°	27.7	26.1	28.1	47.7	292.9	858.4	806.0	843.2	463.3	83.5	65.8
85°	10.1	9.5	15.6	43.2	91.9	493.4	828.1	695.6	375.4	38.2	48.2
87.5°	3.6	3.1	6.0	23.6	28.1	210.1	511.0	525.7	147.7	23.1	22.5
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°	2313.2	2313.2	2313.2	2313.2	2313.2	2313.2	2313.2	2313.2	2313.2	2313.2	2313.2
2.5°	2292.7	2261.6	2204.3	2145.4	2091.2	2025.8	1993.1	1961.0	1947.3	1942.3	1918.7
5°	2226.3	2173.4	2051.9	1929.7	1817.2	1697.5	1618.7	1555.3	1518.2	1500.1	1471.5
7.5°	2141.4	2055.0	1870.5	1682.0	1506.6	1333.8	1205.6	1107.2	1039.2	1006.6	976.9
10°	2058.9	1943.8	1681.5	1424.7	1186.5	957.4	780.4	652.3	570.5	532.8	508.6
12.5°	1985.1	1835.9	1499.1	1173.9	874.9	606.5	426.6	324.6	274.0	256.2	247.8
15°	1919.3	1736.3	1326.7	935.8	592.5	346.7	233.2	198.5	190.5	190.5	189.5
17.5°	1856.9	1638.8	1160.4	712.1	371.9	212.1	177.3	172.8	172.8	174.9	174.9
20°	1797.1	1545.9	999.5	511.0	234.2	168.3	160.3	159.3	160.3	162.9	162.9
22.5°	1745.9	1461.5	849.3	350.8	173.9	151.8	147.7	146.2	146.8	148.2	149.3
25°	1707.7	1390.0	707.5	237.7	149.7	138.2	133.7	131.2	129.1	129.1	130.2
27.5°	1683.6	1329.8	570.5	172.8	134.7	125.7	118.5	114.5	110.0	107.5	108.5
30°	1665.9	1272.4	441.7	141.3	120.6	111.6	102.5	95.9	89.4	86.4	87.5
32.5°	1659.3	1226.2	330.1	124.7	108.1	97.9	87.0	78.4	71.3	68.8	69.3
35°	1677.0	1189.5	241.7	112.6	97.9	85.3	72.9	63.3	57.9	56.2	56.9
37.5°	1723.3	1170.0	180.9	102.5	88.9	74.9	60.8	51.7	48.2	48.2	48.8
40°	1810.8	1169.5	145.3	95.5	80.8	64.9	50.2	43.7	41.7	42.7	43.2
42.5°	1938.4	1196.1	126.7	88.9	73.9	55.2	41.7	37.2	36.7	37.6	38.2
45°	2112.8	1244.8	116.6	83.5	66.4	46.3	35.2	32.2	32.2	33.6	34.1
47.5°	2326.3	1316.1	108.1	78.0	58.7	38.6	30.2	28.1	28.7	30.2	30.6
50°	2583.6	1406.1	99.5	71.9	53.3	32.2	26.1	24.7	25.2	27.0	27.7
52.5°	2876.6	1527.3	92.4	66.4	46.3	26.6	22.1	21.1	22.1	24.2	24.7
55°	3127.9	1635.9	83.9	61.9	37.2	22.1	18.1	18.1	19.1	21.6	22.1
57.5°	3369.6	1749.4	76.4	53.3	29.1	17.5	15.1	15.6	17.1	19.7	20.1
60°	3724.5	1941.9	67.4	44.7	22.1	14.1	12.5	13.0	15.1	17.5	18.1
62.5°	4327.0	2234.9	58.3	37.2	17.1	11.0	10.1	11.0	13.6	16.6	17.1
65°	4870.7	2354.0	47.7	31.1	13.0	8.5	8.5	10.1	13.0	16.1	16.6
67.5°	4567.7	1981.5	37.2	24.7	10.1	6.6	7.0	9.5	12.5	16.1	16.6
69°	4039.5	1620.3	31.7	19.7	8.5	6.0	6.6	9.5	12.5	15.6	16.1
70°	3628.0	1367.9	28.1	16.6	7.5	6.0	6.6	9.1	12.5	15.6	16.1
72.5°	2429.8	738.8	22.5	12.0	7.0	5.5	5.5	9.1	12.0	15.1	15.6
75°	1044.3	204.1	18.1	8.5	6.0	5.0	5.0	8.5	11.6	14.6	15.6
77.5°	191.0	51.7	14.6	7.5	6.0	5.0	4.5	8.1	11.0	14.1	14.6
80°	75.8	25.6	11.6	6.6	5.5	4.5	4.0	7.5	10.6	13.6	14.1
82.5°	45.8	14.6	9.5	6.0	5.5	4.0	3.6	6.6	10.1	13.0	13.6
85°	37.2	10.1	7.5	6.0	5.0	4.0	3.1	6.0	9.1	12.5	13.0
87.5°	18.1	7.0	7.0	5.5	5.0	4.0	3.1	5.5	8.5	12.0	12.5
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)