

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: P193621

Luminaire Tested: **GLEON-AF-03-LED-E1-SL2-8030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193621  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)  
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-SL2-8030-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11737 lumens  
Efficiency: N/A  
Efficacy: 94.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G3

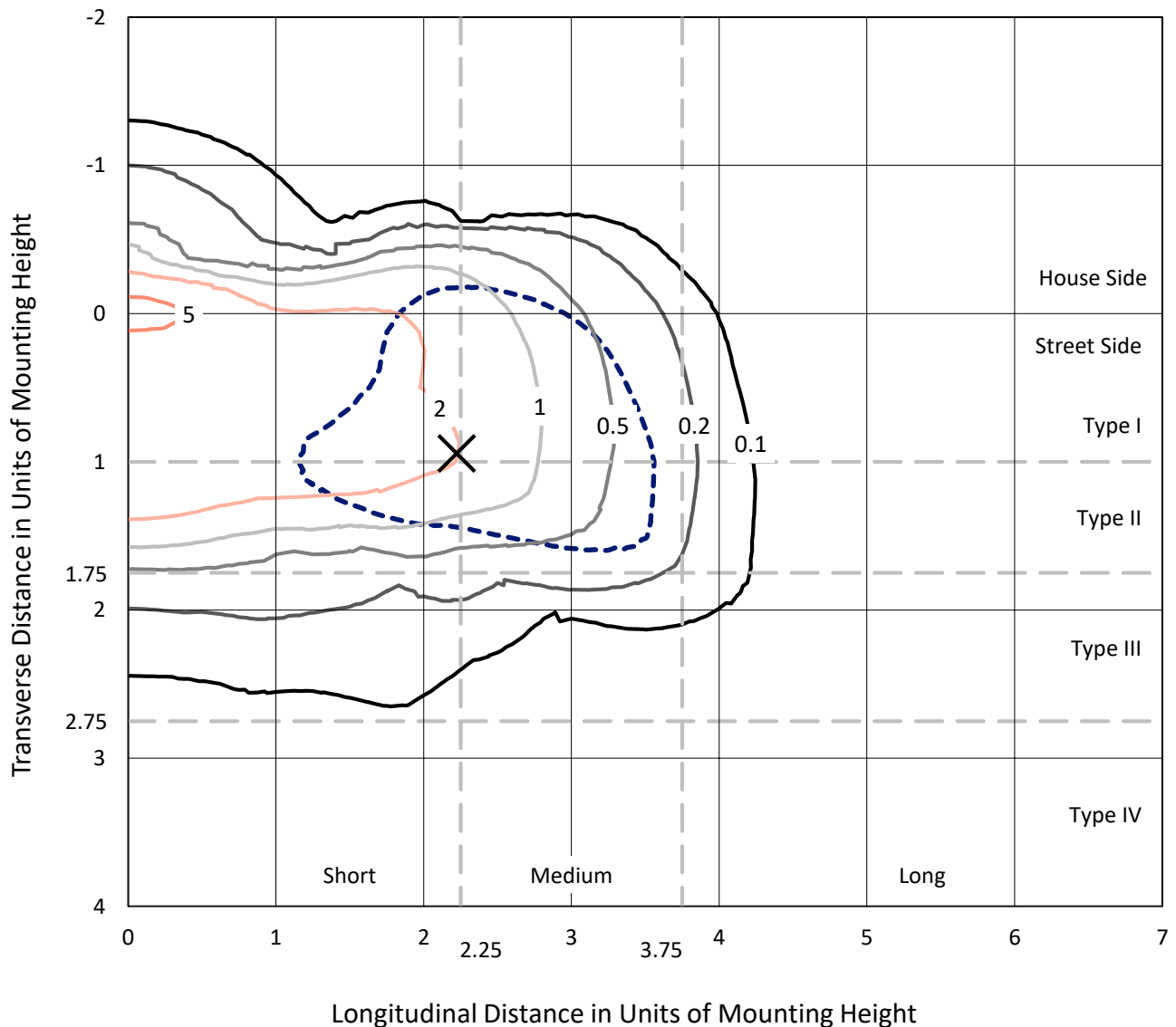
Input Watts (W): 124  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

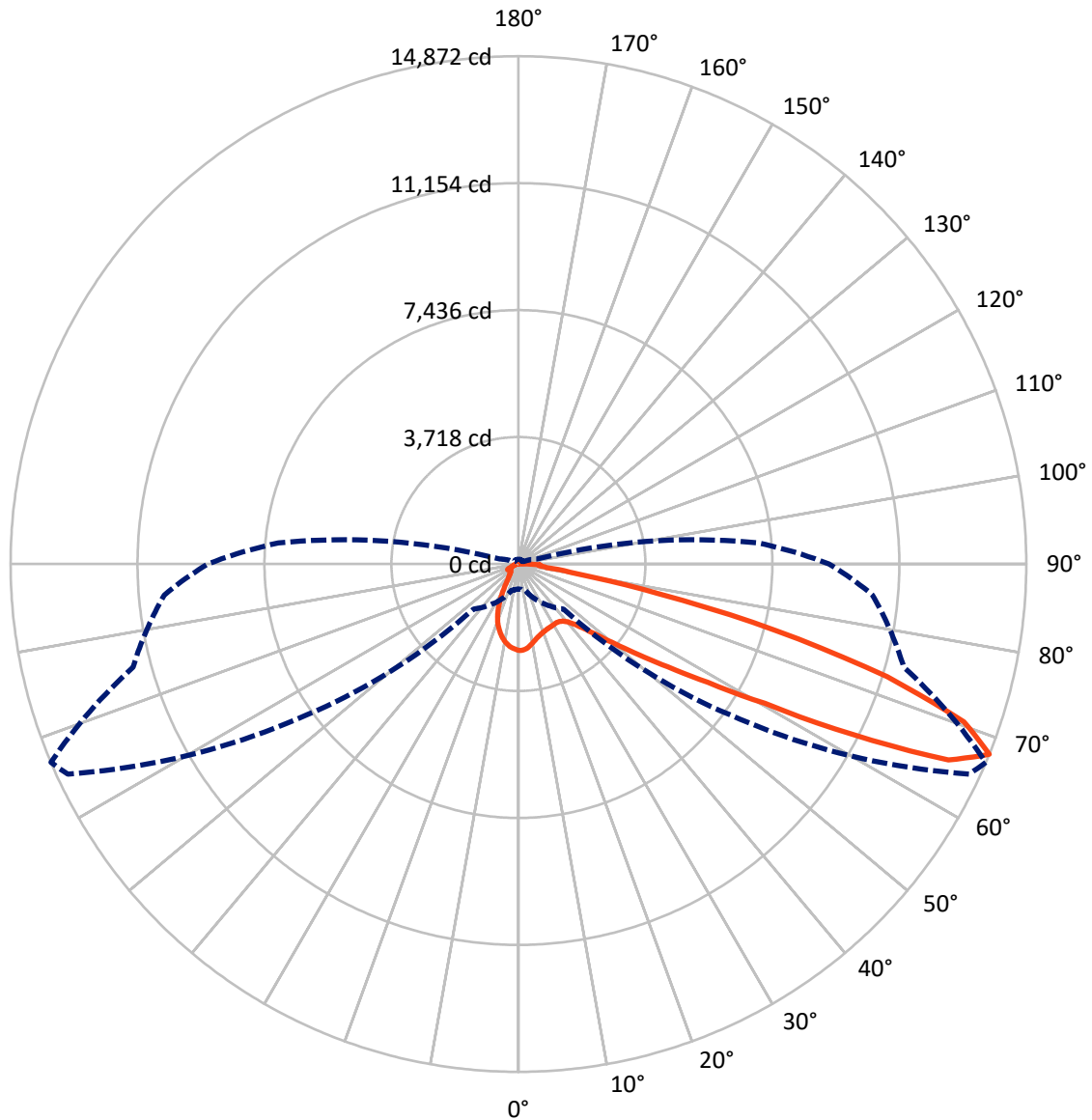


Based on 20 foot mounting height. Maximum calculated value = 6.3 fc  
 Type II - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1944.7	0.0	1944.7
	% Fixture	16.6	0.0	16.6
<b>Street Side</b>	Lumens	9792.3	0.0	9792.3
	% Fixture	83.4	0.0	83.4
<b>Total</b>	Lumens	11737.0	0.0	11737.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	216.0	1.8
10°-20°	499.8	4.3
20°-30°	677.4	5.8
30°-40°	963.0	8.2
40°-50°	1611.2	13.7
50°-60°	2548.9	21.7
60°-70°	3247.1	27.7
70°-80°	1700.8	14.5
80°-90°	272.8	2.3
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°	11737.0	100.0
0°-180°	11737.0	100.0



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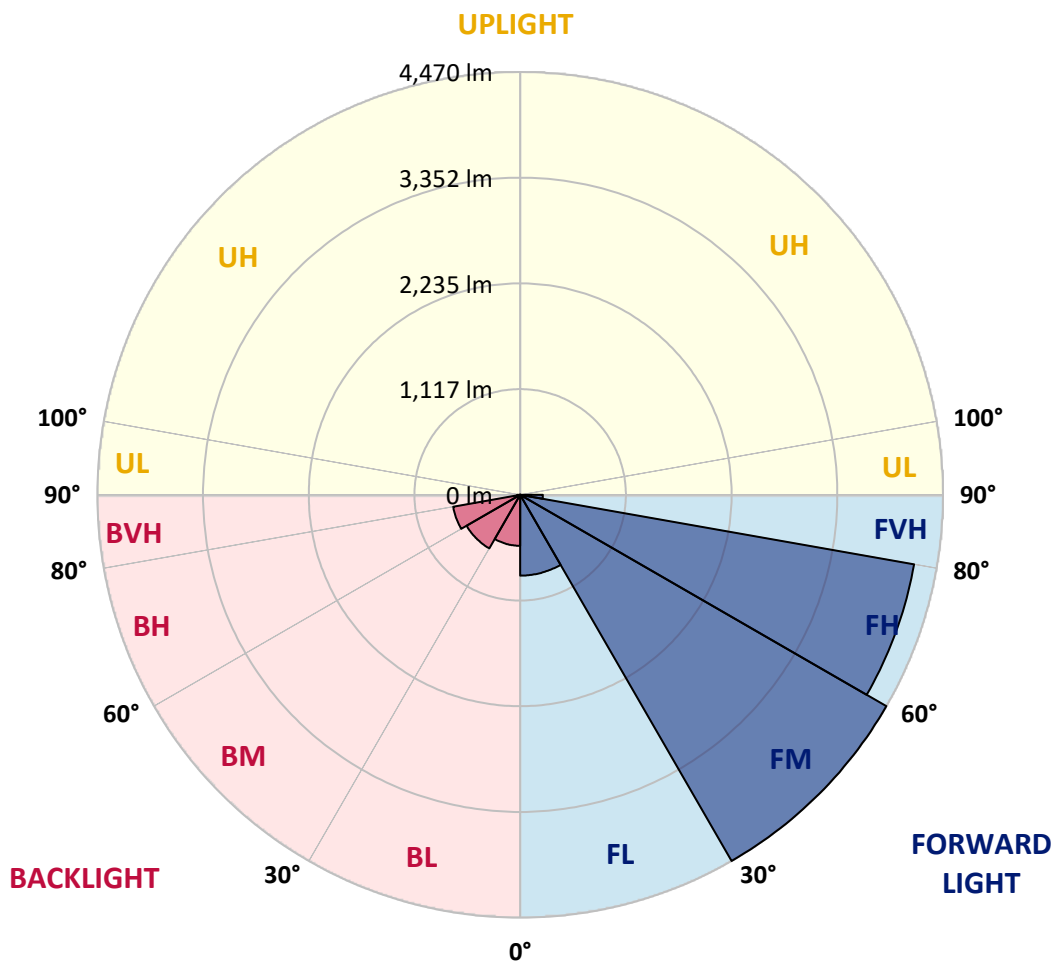
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	854.2	7.3			
FM (30°-60°)	4469.7	38.1			
FH (60°-80°)	4228.6	36.0			G2/5000
FVH (80°-90°)	239.9	2.0			G3/500
BL (0°-30°)	539.0	4.6	B2/1000		
BM (30°-60°)	653.5	5.6	B1/1000		
BH (60°-80°)	719.3	6.1	B2/1000		G2/1000
BVH (80°-90°)	32.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2531.6	2531.6	2531.6	2531.6	2531.6	2531.6	2531.6	2531.6	2531.6	2531.6	2531.6
2.5°	2427.5	2431.5	2444.2	2452.3	2488.8	2504.4	2515.4	2526.4	2528.2	2533.4	2528.2
5°	2172.8	2181.5	2205.2	2231.8	2302.4	2358.0	2416.5	2477.2	2488.2	2527.6	2538.6
7.5°	1975.4	1973.1	1992.8	2024.6	2097.0	2173.9	2276.4	2397.4	2421.1	2509.6	2552.5
10°	1831.3	1829.6	1850.4	1883.4	1952.3	2025.2	2141.0	2306.5	2340.1	2481.3	2565.8
12.5°	1724.8	1725.4	1746.2	1782.7	1852.7	1926.2	2043.7	2218.5	2261.3	2448.3	2579.7
15°	1654.2	1658.8	1675.6	1714.4	1782.7	1856.2	1971.4	2152.5	2200.6	2422.3	2595.3
17.5°	1630.5	1638.0	1643.8	1672.1	1730.6	1804.1	1917.0	2103.9	2154.8	2404.3	2609.2
20°	1652.5	1661.1	1650.1	1660.0	1697.0	1761.8	1874.1	2065.7	2117.8	2384.0	2610.9
22.5°	1746.8	1754.9	1722.5	1694.1	1691.8	1731.2	1838.8	2035.6	2089.4	2369.0	2611.5
25°	1912.9	1918.1	1863.7	1797.7	1733.5	1720.2	1813.9	2014.8	2072.1	2355.7	2600.5
27.5°	2116.6	2120.7	2058.2	1961.0	1831.9	1746.2	1805.3	2002.6	2062.2	2344.1	2582.0
30°	2364.4	2383.5	2299.5	2176.8	1988.7	1823.2	1822.6	1996.3	2051.2	2324.4	2545.5
32.5°	2617.9	2626.0	2568.1	2443.7	2200.0	1958.6	1871.2	2000.9	2048.3	2300.7	2499.2
35°	2874.9	2885.3	2847.7	2747.5	2488.8	2157.2	1966.2	2028.1	2066.3	2292.6	2466.8
37.5°	3207.7	3221.6	3169.5	3053.7	2840.1	2426.3	2124.2	2096.4	2121.3	2315.8	2457.0
40°	3733.8	3727.4	3575.2	3402.7	3224.5	2770.7	2349.9	2212.1	2226.6	2390.4	2487.1
42.5°	4346.2	4330.5	4068.3	3797.5	3647.0	3187.4	2648.6	2413.0	2410.1	2537.4	2593.0
45°	4834.7	4821.9	4585.8	4251.8	4131.4	3662.0	3034.6	2712.2	2690.8	2770.7	2788.6
47.5°	5099.2	5099.7	4963.7	4691.1	4688.2	4265.1	3530.6	3145.2	3108.1	3145.7	3126.6
50°	5006.6	5018.7	5004.2	4917.4	5196.4	5055.8	4178.3	3748.8	3674.2	3711.2	3637.7
52.5°	4558.6	4574.2	4659.9	4793.0	5410.0	6011.3	5129.8	4499.0	4412.1	4398.8	4317.2
55°	3764.5	3783.6	3958.4	4320.1	5232.3	6653.2	6631.2	5455.1	5316.8	5191.2	5156.5
57.5°	2594.7	2626.6	2907.9	3445.0	4657.6	6847.1	8419.1	6818.2	6536.9	6098.2	6106.3
60°	1462.6	1499.7	1831.3	2319.2	3497.6	6636.4	9779.3	8882.7	8288.9	7160.3	7220.4
62.5°	930.1	970.1	1221.8	1611.4	2098.7	5502.0	10336.7	11753.0	10998.8	8469.5	8528.5
65°	753.0	770.4	889.0	1330.1	1524.0	3314.7	9913.6	14117.3	13836.1	10131.2	9855.7
67.5°	735.1	740.9	802.2	1116.5	1461.5	1863.1	7907.5	14559.5	14871.5	11682.9	10408.4
70°	726.4	746.6	904.1	1065.6	1399.5	1571.4	4751.9	13347.6	13840.1	12088.7	9672.8
72.5°	352.5	351.3	454.9	963.7	1576.6	1629.9	2441.4	10799.7	11294.0	10473.3	7948.6
75°	284.2	259.9	248.3	353.1	1515.9	1683.1	1555.8	7431.1	7788.8	7021.9	4886.2
77.5°	269.7	240.8	220.5	221.1	640.7	1785.0	1317.9	4112.9	4217.1	3171.8	1338.7
80°	223.4	196.8	182.3	205.5	310.2	1699.9	1425.0	1861.4	1708.0	779.1	445.7
82.5°	155.1	141.2	137.2	172.5	248.3	1211.4	1657.1	1000.2	838.7	390.1	274.9
85°	99.0	84.5	93.8	125.6	193.3	559.1	1706.9	779.6	619.9	247.7	155.1
87.5°	45.7	37.0	46.3	69.5	126.2	192.7	1624.1	875.7	638.4	130.8	97.8
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°	2531.6	2531.6	2531.6	2531.6	2531.6	2531.6	2531.6	2531.6	2531.6	2531.6	2531.6
2.5°	2532.8	2521.8	2513.1	2496.9	2479.0	2461.6	2446.0	2426.3	2420.5	2415.3	2423.4
5°	2540.9	2529.9	2498.1	2448.3	2393.3	2341.8	2290.3	2246.3	2219.1	2204.0	2212.7
7.5°	2553.1	2537.4	2471.4	2380.0	2281.0	2190.7	2097.5	2022.9	1967.9	1941.9	1949.4
10°	2564.1	2534.0	2426.3	2289.1	2144.4	2010.1	1863.1	1741.6	1651.3	1603.8	1615.4
12.5°	2568.7	2520.6	2363.2	2175.7	1977.2	1780.4	1563.9	1382.2	1252.5	1205.0	1195.2
15°	2573.3	2505.6	2293.8	2046.6	1775.2	1496.8	1193.5	975.8	868.2	844.5	839.3
17.5°	2574.5	2479.6	2215.0	1906.5	1538.4	1159.3	816.1	677.8	678.3	716.5	721.2
20°	2562.3	2440.8	2119.5	1732.3	1254.8	801.6	560.3	536.5	623.9	719.4	731.0
22.5°	2534.5	2389.3	2011.3	1529.2	930.1	527.9	433.5	459.6	572.4	689.3	702.7
25°	2499.2	2326.7	1883.4	1293.6	615.8	377.4	363.5	395.3	471.7	549.9	557.4
27.5°	2451.2	2252.7	1739.9	1023.9	399.9	310.8	320.1	341.5	372.7	407.5	410.9
30°	2389.3	2164.1	1586.5	746.6	302.1	279.6	292.9	304.4	317.8	337.4	339.2
32.5°	2318.1	2079.0	1429.0	515.7	268.0	263.4	273.8	279.6	290.0	302.1	303.3
35°	2258.5	1998.0	1265.8	364.6	253.5	251.2	258.1	260.5	270.3	283.6	284.8
37.5°	2224.3	1932.0	1097.4	294.0	243.7	240.2	244.3	244.3	258.1	277.8	280.7
40°	2226.6	1895.5	929.0	265.7	235.6	230.9	231.5	231.5	249.5	270.9	272.6
42.5°	2289.7	1904.8	779.6	254.7	229.2	224.0	221.1	222.8	237.9	251.8	252.9
45°	2437.9	1970.2	639.6	247.7	222.8	221.1	214.7	214.2	219.9	226.3	226.3
47.5°	2681.0	2099.3	544.6	243.1	217.6	217.0	209.5	202.0	201.4	203.7	203.7
50°	3076.3	2321.5	481.0	237.9	214.2	209.5	200.8	189.3	185.2	187.0	187.0
52.5°	3669.0	2718.0	456.7	230.9	206.6	199.1	189.3	177.7	174.2	174.8	174.8
55°	4446.3	3326.9	453.2	222.8	198.5	186.4	178.3	169.6	165.5	166.7	166.7
57.5°	5396.1	4169.0	515.1	210.1	187.5	173.6	169.0	163.2	160.3	162.1	161.5
60°	6550.8	5271.1	764.0	196.8	176.5	162.1	162.1	157.4	155.1	156.9	156.3
62.5°	7880.9	6536.9	1074.2	187.0	165.0	152.8	155.1	152.8	150.5	151.6	151.1
65°	9060.4	7361.7	1005.9	179.4	153.4	144.1	148.2	147.0	145.3	146.4	145.9
67.5°	9094.6	7056.1	564.9	171.3	142.4	135.4	141.2	140.6	139.5	140.6	140.1
70°	8116.4	5958.1	318.3	156.3	130.8	125.0	133.1	132.5	131.4	133.7	133.1
72.5°	6502.7	4323.6	232.7	137.8	119.2	114.0	123.3	122.7	122.7	126.2	124.4
75°	3741.9	2224.9	185.8	118.1	107.1	103.0	111.1	111.7	112.9	117.5	114.0
77.5°	1066.7	693.4	151.6	100.1	92.0	90.3	98.4	99.6	100.1	105.3	100.7
80°	396.5	319.5	125.0	83.9	75.2	75.8	83.3	85.1	85.7	90.9	85.1
82.5°	252.9	210.7	101.3	64.8	59.0	58.5	67.7	70.0	70.0	70.6	67.1
85°	147.6	126.2	76.4	46.9	41.7	39.9	50.4	54.4	52.7	51.5	49.2
87.5°	99.0	86.8	46.9	26.0	22.6	21.4	29.5	32.4	31.3	29.5	27.8
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)