

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: P269244

Luminaire Tested: **GLEON-AF-04-LED-E1-SL4-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269244
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-04-LED-E1-SL4-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16015.8 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G3

Input Watts (W): 171
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

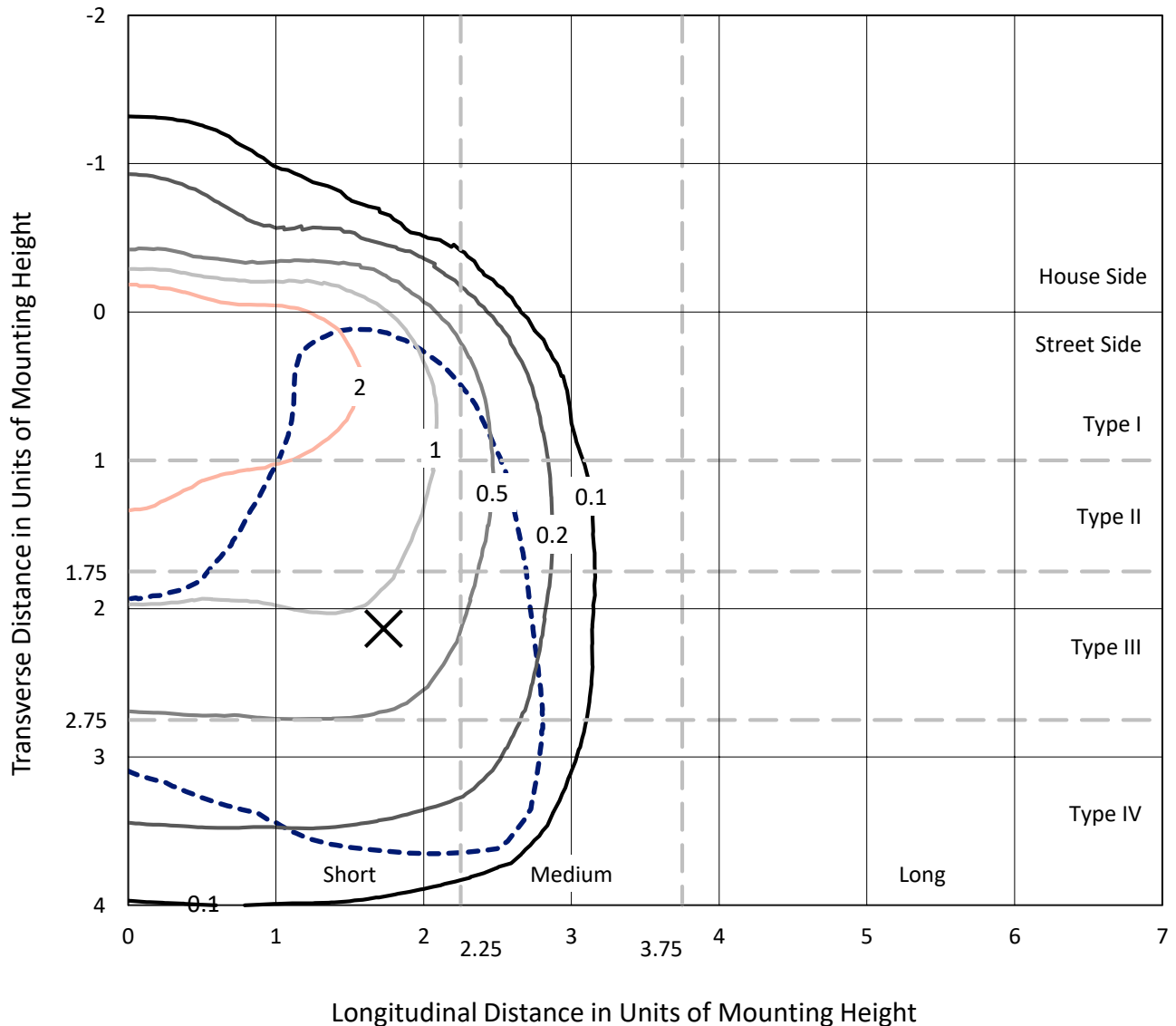


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Iso-Footcandle Lines of Horizontal Illumination

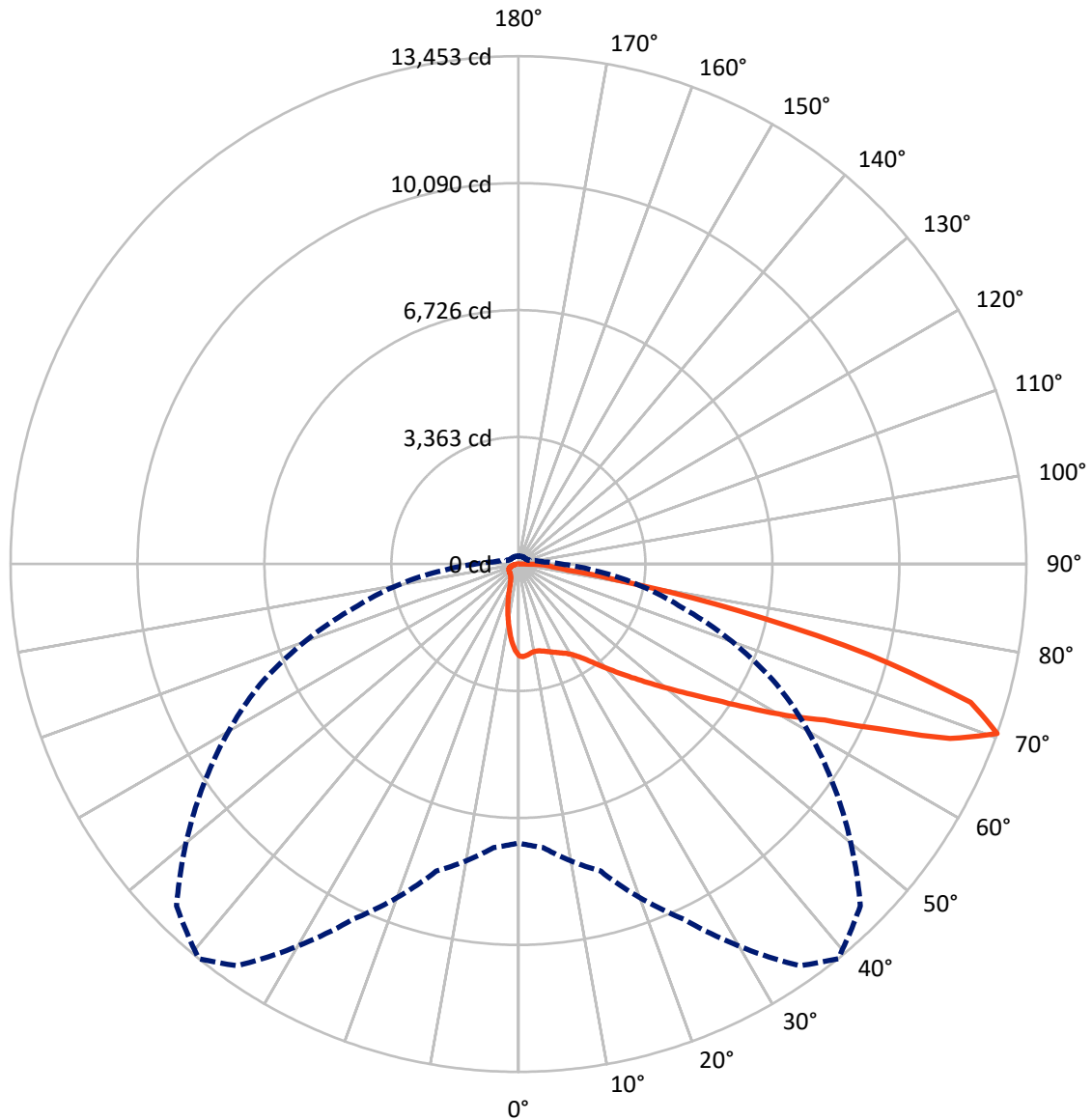
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1821.5	0.0	1821.5
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	14194.3	0.0	14194.3
	% Fixture	88.6	0.0	88.6
Total	Lumens	16015.8	0.0	16015.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.7	1.3
10°-20°	521.6	3.3
20°-30°	812.1	5.1
30°-40°	1265.1	7.9
40°-50°	2123.9	13.3
50°-60°	3374.1	21.1
60°-70°	4500.6	28.1
70°-80°	2717.8	17.0
80°-90°	491.9	3.1
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°	16015.8	100.0
0°-180°	16015.8	100.0



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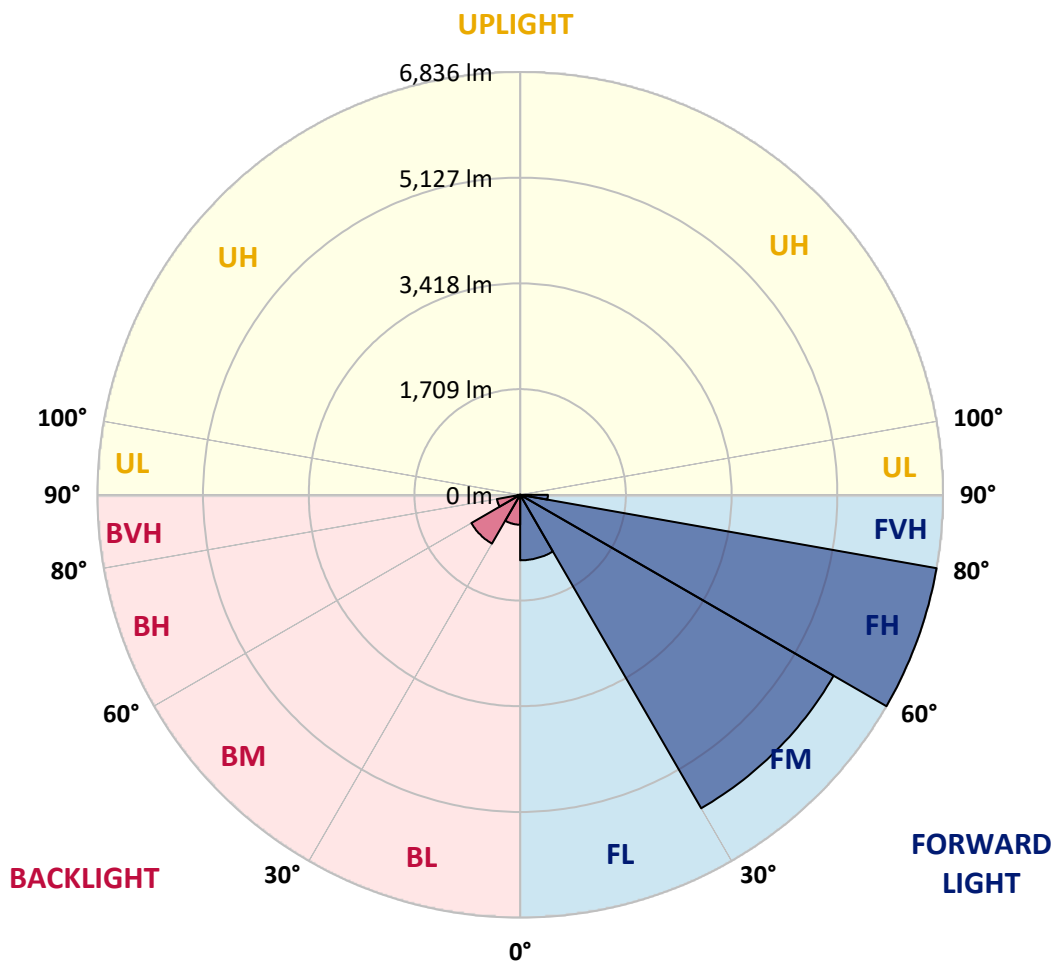
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1059.1	6.6			
FM (30°-60°)	5851.6	36.5			
FH (60°-80°)	6836.0	42.7			G3/7500
FVH (80°-90°)	447.6	2.8			G3/500
BL (0°-30°)	483.2	3.0	B1/500		
BM (30°-60°)	911.6	5.7	B1/1000		
BH (60°-80°)	382.4	2.4	B1/500		G1/500
BVH (80°-90°)	44.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2431.4	2431.4	2431.4	2431.4	2431.4	2431.4	2431.4	2431.4	2431.4	2431.4	2431.4
2.5°	2478.7	2477.9	2471.3	2466.4	2462.4	2460.7	2464.1	2451.8	2441.2	2428.2	2414.4
5°	2460.0	2459.1	2448.5	2438.8	2428.9	2425.8	2425.0	2403.0	2389.9	2370.4	2344.3
7.5°	2439.5	2435.6	2421.7	2405.4	2388.4	2380.1	2372.1	2343.5	2328.9	2309.4	2279.2
10°	2418.4	2413.6	2400.5	2384.2	2367.9	2355.7	2341.9	2314.3	2298.8	2284.1	2249.0
12.5°	2396.5	2392.4	2389.1	2381.8	2370.4	2359.8	2349.2	2325.6	2309.4	2292.3	2251.5
15°	2393.2	2391.6	2398.8	2403.8	2397.2	2390.7	2379.3	2358.9	2341.9	2324.8	2271.9
17.5°	2419.2	2418.4	2437.1	2450.1	2447.0	2435.6	2420.0	2397.2	2383.5	2368.7	2302.7
20°	2476.3	2480.3	2503.0	2520.3	2503.9	2487.6	2462.4	2430.6	2423.3	2416.8	2334.5
22.5°	2583.7	2587.7	2604.0	2610.6	2568.3	2544.5	2509.7	2468.9	2464.1	2468.9	2372.9
25°	2751.5	2747.3	2745.0	2720.4	2643.2	2606.5	2561.7	2519.3	2521.8	2543.8	2426.5
27.5°	2973.7	2951.8	2917.5	2844.4	2721.3	2680.6	2626.0	2586.9	2602.5	2644.8	2507.2
30°	3204.3	3179.8	3100.8	2981.0	2823.9	2779.1	2718.1	2674.2	2714.8	2781.6	2614.6
32.5°	3417.5	3414.3	3298.7	3144.7	2965.7	2926.6	2865.5	2815.7	2881.8	2983.5	2775.9
35°	3650.4	3657.8	3519.3	3334.5	3157.0	3116.3	3072.4	3034.8	3122.8	3262.9	3009.6
37.5°	3899.6	3914.3	3750.7	3542.1	3375.2	3358.1	3332.1	3315.7	3451.7	3645.5	3336.1
40°	4232.6	4218.0	3990.8	3776.7	3643.0	3642.3	3634.2	3653.6	3880.0	4145.5	3755.5
42.5°	4589.4	4546.1	4245.7	4028.3	3937.0	3964.8	3981.0	4060.8	4395.4	4752.9	4266.8
45°	4973.6	4876.8	4510.3	4294.5	4263.5	4322.3	4377.6	4551.1	5002.1	5444.3	4827.0
47.5°	5280.6	5187.1	4784.0	4573.8	4641.5	4730.1	4836.8	5111.3	5681.2	6158.4	5379.9
50°	5522.5	5461.3	5060.0	4899.5	5057.5	5194.3	5368.6	5745.6	6388.0	6853.8	5892.2
52.5°	5757.0	5711.3	5338.4	5233.3	5546.0	5735.0	5971.9	6426.4	7112.8	7537.8	6322.9
55°	5968.7	5936.1	5638.1	5649.5	6121.1	6366.8	6665.0	7201.5	7902.6	8147.6	6687.7
57.5°	6207.3	6165.7	5980.0	6171.4	6859.5	7178.7	7566.3	8072.8	8643.6	8690.1	6965.4
60°	6447.5	6411.7	6359.6	6773.9	7797.6	8133.1	8500.3	8917.3	9395.3	9111.0	6949.1
62.5°	6655.9	6660.0	6752.0	7406.7	8716.1	9104.5	9552.3	9964.4	10075.1	9184.4	6435.3
65°	7009.4	7073.7	7348.0	8302.5	10009.2	10528.7	11078.3	11012.3	10263.2	8499.6	5333.5
67.5°	7429.5	7542.7	8098.8	9496.2	11643.4	12333.1	12545.6	11249.4	9509.9	6909.3	3801.8
70°	7387.2	7542.7	8423.0	10386.2	12990.3	13452.7	12807.9	10181.0	7551.6	4513.5	2019.4
72.5°	6559.9	6782.2	7762.6	9978.3	12566.0	12525.2	11119.0	7589.9	4486.8	1812.6	789.0
75°	4999.6	5224.5	6068.1	7883.0	9931.8	9589.9	7889.5	4192.7	1702.6	719.8	497.5
77.5°	2876.1	3050.4	3701.7	4834.4	6300.9	5950.0	4391.5	1864.7	829.0	501.7	388.3
80°	1605.8	1702.6	2098.4	2452.6	3087.7	2830.5	1964.9	1158.8	618.8	364.1	299.7
82.5°	1269.5	1355.8	1697.0	1547.2	1410.2	1301.3	1128.6	1031.8	494.2	229.6	179.1
85°	1109.0	1191.3	1436.4	1218.2	963.3	883.6	916.9	1015.4	384.4	138.3	153.2
87.5°	1027.7	1137.6	1280.1	938.9	749.9	664.4	846.1	1113.1	123.7	86.2	62.0
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°	2431.4	2431.4	2431.4	2431.4	2431.4	2431.4	2431.4	2431.4	2431.4	2431.4	2431.4
2.5°	2402.2	2389.1	2367.9	2349.2	2320.0	2304.4	2287.4	2275.0	2265.3	2257.3	2270.2
5°	2328.0	2303.7	2258.8	2210.8	2153.7	2109.0	2071.5	2036.5	2012.2	1995.9	2007.3
7.5°	2258.0	2218.2	2148.0	2060.9	1963.2	1880.2	1811.8	1751.5	1710.1	1683.2	1693.8
10°	2218.2	2168.4	2060.2	1923.4	1779.3	1649.7	1542.3	1449.4	1385.0	1348.4	1354.1
12.5°	2208.4	2144.1	1994.1	1806.1	1609.0	1429.1	1277.6	1148.9	1058.6	1011.3	1013.0
15°	2215.7	2133.5	1932.3	1693.8	1444.6	1217.4	1028.4	872.2	767.1	713.3	712.4
17.5°	2227.8	2125.3	1867.1	1572.4	1277.6	1013.7	802.8	649.8	556.9	513.8	510.5
20°	2240.9	2112.3	1793.8	1441.3	1104.1	824.9	628.6	508.9	450.3	426.6	425.1
22.5°	2259.6	2100.9	1718.2	1302.8	934.0	671.8	517.1	436.4	405.6	393.3	391.8
25°	2289.8	2095.1	1637.5	1158.8	780.8	561.9	450.3	400.6	382.7	374.6	373.8
27.5°	2340.3	2103.3	1561.9	1018.7	656.3	487.8	412.9	382.7	369.7	362.3	361.6
30°	2405.4	2128.5	1482.1	886.0	559.5	437.2	390.0	370.6	360.0	352.6	352.6
32.5°	2513.6	2170.8	1398.1	771.1	490.1	402.3	372.9	360.0	351.0	345.3	344.4
35°	2673.3	2250.7	1320.0	675.9	440.4	377.0	358.2	348.5	342.1	338.8	338.8
37.5°	2905.4	2376.8	1250.7	607.4	410.3	360.0	344.4	337.1	333.0	333.0	333.0
40°	3217.2	2551.1	1194.6	561.9	393.3	347.7	333.9	328.2	325.7	326.5	326.5
42.5°	3602.5	2777.5	1157.0	530.1	385.2	340.4	326.5	321.7	319.2	318.4	319.2
45°	4041.3	3034.8	1153.1	506.5	377.0	335.4	321.7	316.7	311.9	308.6	308.6
47.5°	4468.0	3296.2	1186.4	498.3	368.0	329.8	317.6	312.7	305.3	298.1	298.1
50°	4845.0	3518.5	1231.1	501.7	364.8	321.7	311.1	308.6	297.2	289.1	288.3
52.5°	5144.7	3689.5	1267.9	511.3	368.0	315.9	302.9	303.7	291.5	282.5	281.8
55°	5384.9	3801.8	1258.0	521.1	375.4	312.7	295.6	297.2	287.5	278.5	278.5
57.5°	5489.9	3760.3	1149.8	513.0	381.2	313.5	290.0	296.4	288.3	280.1	280.1
60°	5264.3	3391.6	947.1	477.2	373.8	311.1	287.5	299.7	298.9	290.7	290.0
62.5°	4582.0	2731.0	734.5	424.2	348.5	298.9	280.9	298.9	307.8	305.3	304.5
65°	3531.5	1945.3	561.0	367.2	314.2	278.5	263.8	280.1	292.3	295.6	294.7
67.5°	2292.3	1192.1	432.4	313.5	276.0	254.8	241.9	249.2	251.6	251.6	250.0
70°	1127.0	641.7	344.4	263.8	237.0	229.6	222.3	218.2	214.2	210.9	210.9
72.5°	556.1	419.4	283.3	223.0	204.4	201.1	199.6	194.7	191.3	187.2	185.7
75°	411.2	341.1	241.0	188.0	175.9	172.7	175.9	171.8	170.9	167.8	166.0
77.5°	337.9	290.7	207.7	161.2	150.6	144.9	149.8	150.6	151.5	146.6	144.9
80°	274.4	246.0	173.5	133.6	123.7	119.7	123.0	129.4	131.2	123.7	120.6
82.5°	197.8	201.1	140.0	104.3	96.1	92.9	99.4	107.4	109.1	98.5	96.1
85°	166.0	167.8	107.4	74.1	65.9	61.1	71.7	79.8	85.5	74.9	72.5
87.5°	69.2	98.5	62.0	41.5	36.7	31.8	38.3	42.3	51.4	47.3	46.4
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)