

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: P193500

Luminaire Tested: **GLEON-AF-02-LED-E1-AFL-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193500
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
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-AFL-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8238 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 85
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

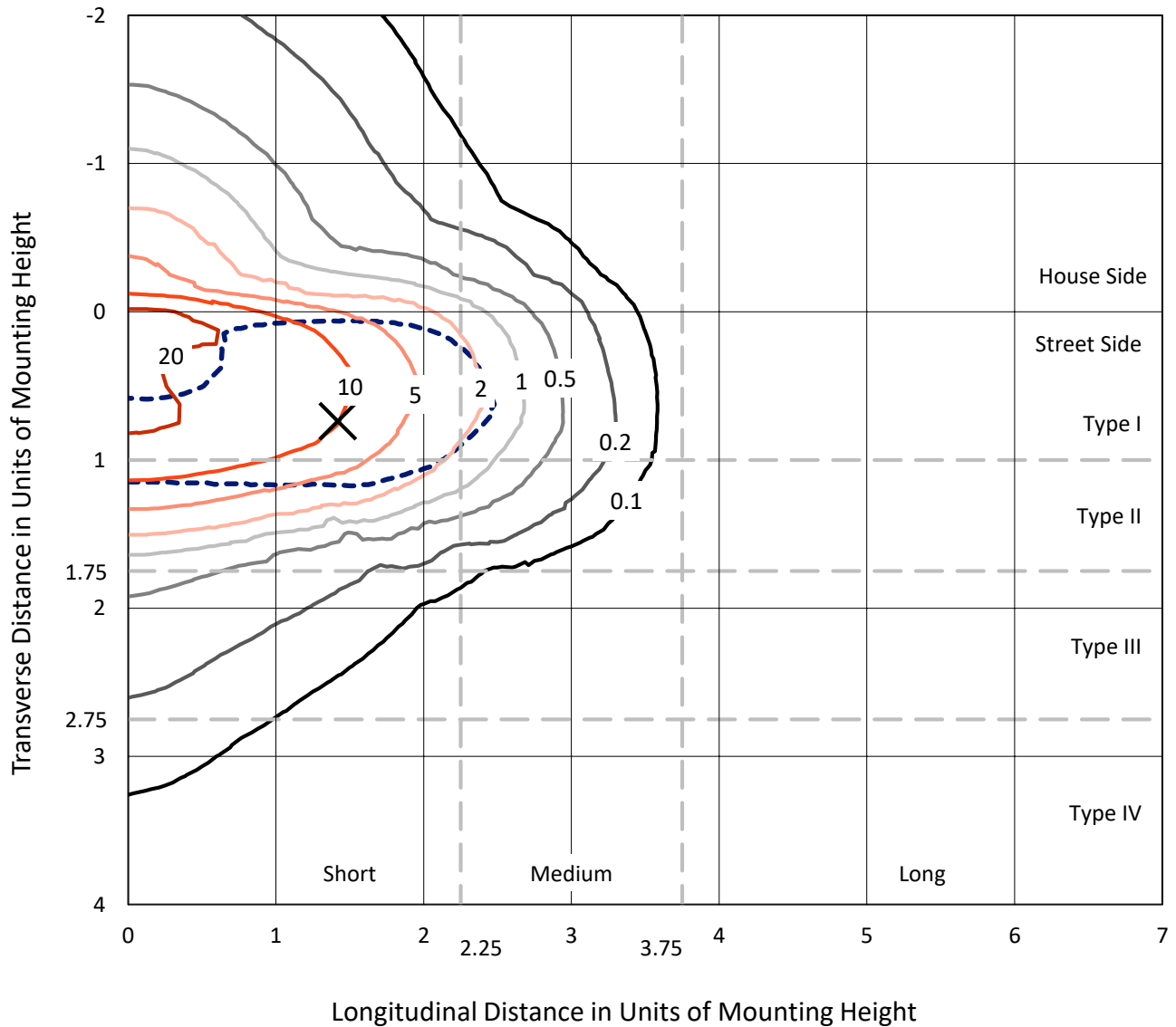


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Iso-Footcandle Lines of Horizontal Illumination

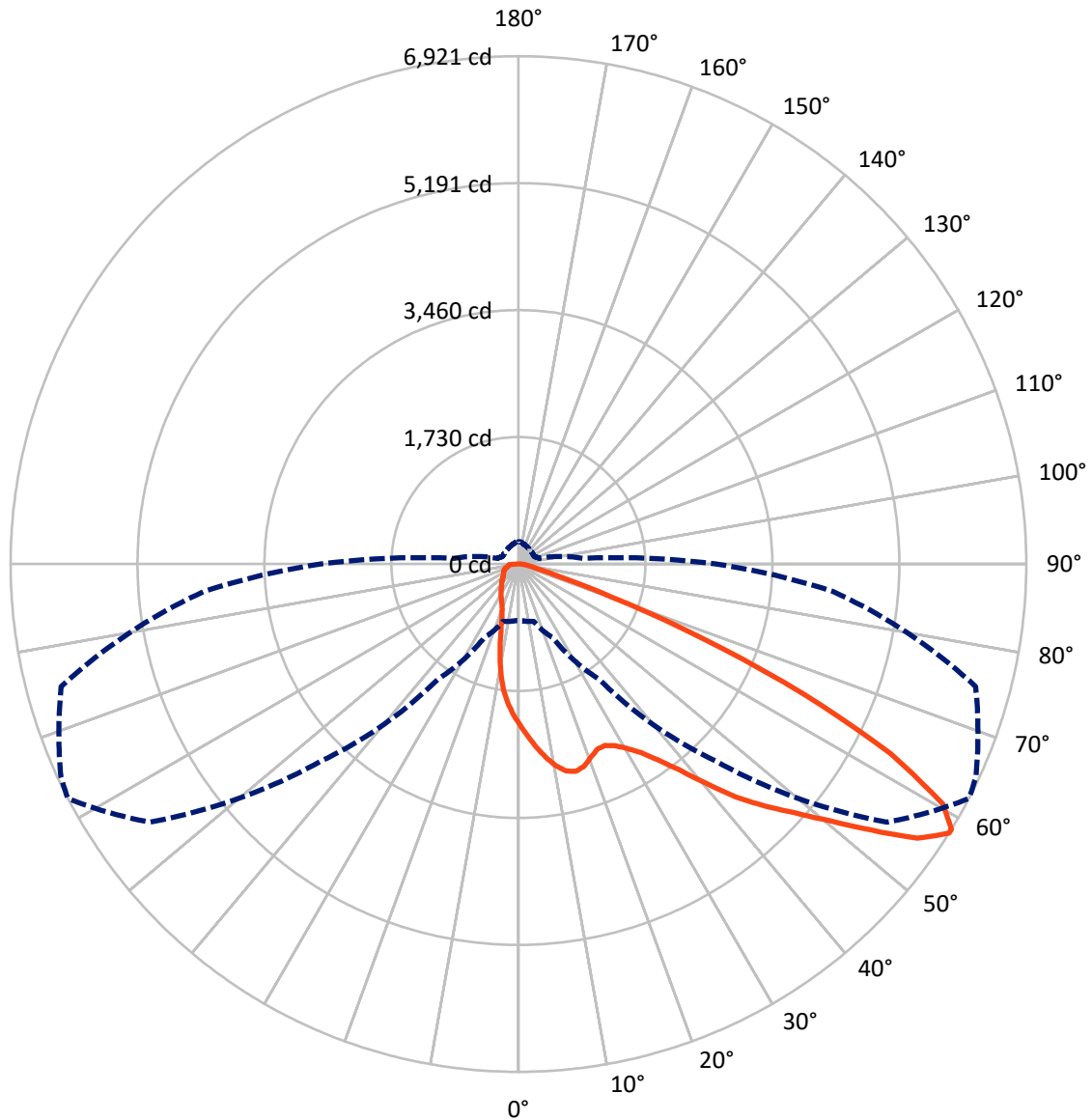
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 26.7 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1256.3	0.0	1256.3
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	6981.7	0.0	6981.7
	% Fixture	84.7	0.0	84.7
Total	Lumens	8238.0	0.0	8238.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.7	2.4
10°-20°	500.3	6.1
20°-30°	808.7	9.8
30°-40°	1283.8	15.6
40°-50°	1878.4	22.8
50°-60°	1964.7	23.8
60°-70°	1160.7	14.1
70°-80°	327.0	4.0
80°-90°	118.7	1.4
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°	8238.0	100.0
0°-180°	8238.0	100.0



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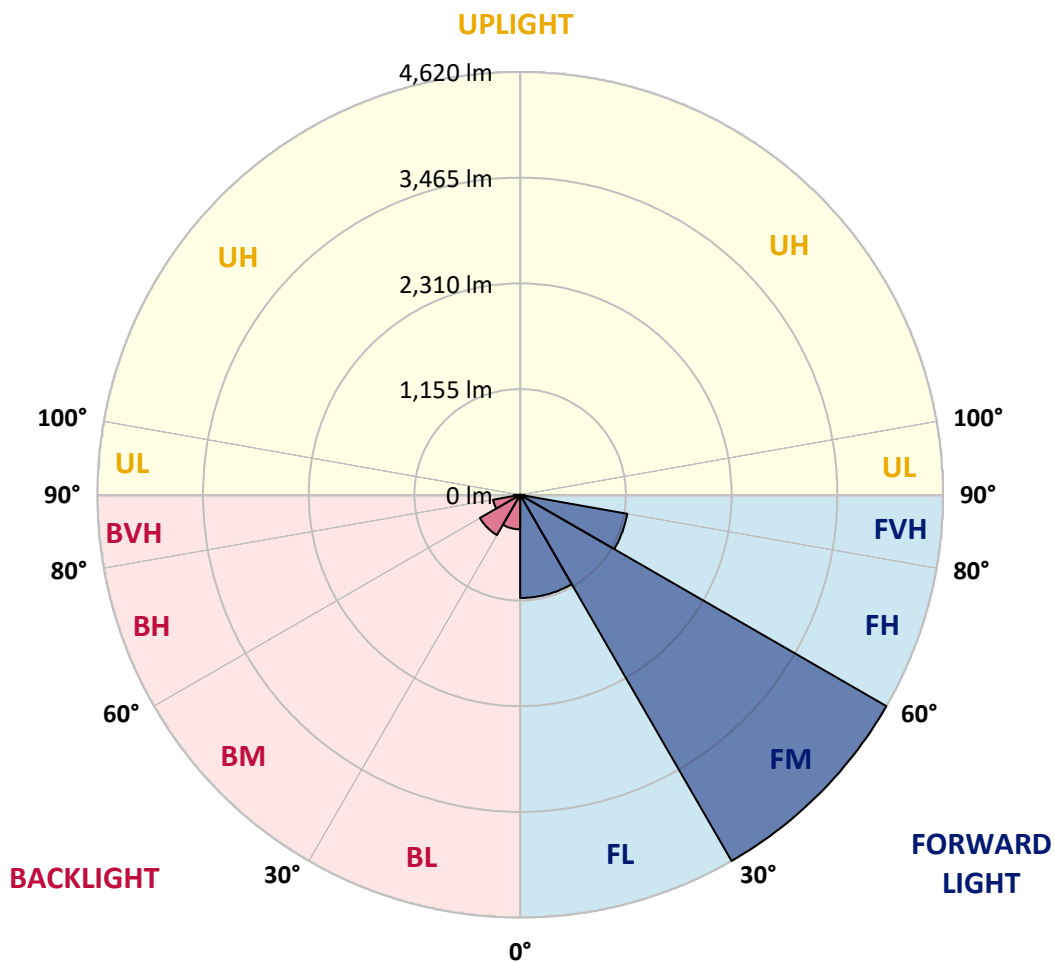
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1127.1	13.7			
FM	(30°-60°)	4619.8	56.1			
FH	(60°-80°)	1188.0	14.4			G1/1800
FVH	(80°-90°)	46.8	0.6			G1/100
BL	(0°-30°)	377.6	4.6	B1/500		
BM	(30°-60°)	507.1	6.2	B1/1000		
BH	(60°-80°)	299.8	3.6	B1/500		G1/500
BVH	(80°-90°)	71.9	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	2188.3	2188.3	2188.3	2188.3	2188.3	2188.3	2188.3	2188.3	2188.3	2188.3	2188.3
2.5°	2500.5	2480.4	2467.6	2456.3	2441.6	2410.1	2367.9	2341.1	2327.5	2281.4	2226.7
5°	2745.7	2727.9	2714.7	2699.5	2673.2	2623.9	2555.6	2501.3	2474.5	2382.2	2272.8
7.5°	2688.3	2695.7	2718.5	2758.5	2792.6	2786.0	2725.1	2656.1	2620.8	2492.4	2326.4
10°	2342.3	2355.1	2394.6	2488.1	2639.4	2794.6	2841.9	2794.2	2758.5	2601.4	2381.4
12.5°	2272.8	2272.4	2275.5	2300.4	2390.4	2608.8	2845.8	2893.9	2872.5	2705.4	2437.7
15°	2301.1	2301.9	2299.6	2310.1	2338.0	2424.5	2727.1	2932.3	2947.4	2810.1	2495.9
17.5°	2375.6	2373.7	2364.8	2364.8	2374.8	2408.6	2587.4	2896.6	2966.4	2902.8	2547.1
20°	2500.5	2491.6	2467.9	2446.2	2435.4	2453.6	2530.0	2814.4	2933.5	2983.9	2589.4
22.5°	2651.8	2644.8	2606.4	2559.9	2522.3	2521.9	2559.5	2742.6	2876.4	3060.3	2625.1
25°	2847.3	2836.1	2779.1	2704.6	2638.6	2613.4	2623.9	2739.1	2845.4	3143.3	2656.9
27.5°	3077.0	3056.4	2988.9	2881.5	2784.5	2733.7	2718.5	2802.3	2873.7	3246.1	2701.1
30°	3355.5	3331.8	3245.3	3105.3	2968.4	2885.0	2852.8	2914.4	2967.6	3371.4	2772.1
32.5°	3672.4	3638.3	3538.2	3383.8	3203.8	3076.6	3024.2	3062.6	3104.9	3522.3	2860.9
35°	4110.4	4069.7	3925.0	3712.0	3508.7	3333.8	3250.0	3277.9	3319.0	3747.3	2989.3
37.5°	4409.1	4390.9	4294.7	4094.5	3873.4	3672.1	3542.5	3558.8	3582.1	4028.5	3153.8
40°	4406.4	4413.8	4415.7	4417.6	4267.1	4074.3	3935.1	3918.0	3913.3	4337.3	3340.8
42.5°	4185.7	4215.9	4313.7	4511.9	4603.4	4515.0	4387.4	4338.1	4313.7	4701.2	3539.0
45°	3847.8	3864.1	4047.2	4434.3	4775.7	4951.4	4854.8	4699.7	4655.4	5035.6	3703.5
47.5°	3673.6	3691.4	3806.7	4228.7	4773.7	5304.0	5359.9	5064.3	4985.2	5326.5	3845.5
50°	3258.9	3296.2	3441.2	3871.1	4599.6	5466.2	5887.9	5498.8	5335.1	5609.7	3987.8
52.5°	2497.4	2554.8	2717.4	3283.0	4157.7	5385.9	6310.3	6025.6	5794.4	5903.0	4110.0
55°	1575.3	1618.0	1754.6	2318.6	3326.0	4968.1	6470.5	6595.4	6389.8	6180.7	4215.9
57.5°	856.5	875.5	926.7	1280.1	2163.4	4044.5	6237.0	6919.7	6834.4	6416.6	4295.8
58°	766.5	779.3	811.1	1109.5	1918.7	3791.9	6133.4	6920.9	6878.2	6451.1	4302.0
60°	568.7	562.1	533.8	633.1	1067.9	2619.6	5507.3	6643.9	6769.2	6493.4	4271.8
62.5°	499.6	483.7	425.9	419.3	519.4	1206.8	4214.0	5691.2	5987.2	6252.1	4087.9
65°	469.4	452.3	377.8	353.8	374.7	510.5	2482.3	4268.3	4639.5	5520.5	3617.7
67.5°	446.9	424.8	347.2	314.2	315.8	337.5	995.0	2688.3	3106.1	4191.5	2814.0
70°	425.2	401.1	321.2	283.2	274.3	266.9	395.7	1345.7	1724.7	2647.6	1794.1
72.5°	401.9	378.2	298.3	258.7	241.3	216.8	258.4	550.5	768.9	1252.6	813.9
75°	368.1	346.8	275.4	237.0	212.2	179.6	195.1	287.4	344.9	498.9	392.2
77.5°	326.6	309.2	249.8	219.2	188.1	145.9	150.1	199.4	221.1	285.5	233.1
80°	234.7	240.9	222.3	197.1	167.6	118.3	115.2	145.5	157.1	183.5	151.7
82.5°	164.9	168.4	183.9	161.0	138.5	93.1	85.0	102.4	109.4	120.6	81.9
85°	113.7	109.8	126.1	112.1	100.1	62.1	58.2	69.4	73.7	74.9	42.3
87.5°	68.3	68.3	72.9	60.1	53.9	32.2	31.4	39.6	42.3	40.3	23.3
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°	2188.3	2188.3	2188.3	2188.3	2188.3	2188.3	2188.3	2188.3	2188.3	2188.3	2188.3
2.5°	2194.1	2166.5	2108.0	2061.0	2001.7	1940.0	1905.5	1868.6	1843.4	1825.2	1854.3
5°	2210.8	2154.5	2033.5	1918.7	1791.8	1659.9	1559.8	1466.7	1401.9	1361.6	1399.6
7.5°	2237.1	2150.6	1957.8	1761.5	1533.8	1314.3	1118.0	995.0	923.2	887.9	910.1
10°	2267.4	2144.4	1869.0	1548.6	1222.7	946.1	799.5	749.8	733.6	727.0	730.1
12.5°	2292.6	2131.2	1760.0	1291.0	918.2	747.1	704.9	703.7	707.2	708.0	709.1
15°	2310.5	2111.8	1598.2	1022.6	734.3	680.8	678.5	685.5	692.0	694.8	696.3
17.5°	2322.5	2071.9	1415.5	808.4	657.9	648.6	654.0	663.0	669.9	671.9	673.4
20°	2321.3	2013.3	1197.9	674.2	616.4	616.4	625.7	632.7	633.1	630.8	631.9
22.5°	2309.3	1933.0	986.9	602.8	579.6	586.1	595.5	588.9	561.7	543.9	545.0
25°	2289.1	1837.2	806.1	557.4	545.4	557.1	554.3	504.7	465.9	448.4	448.4
27.5°	2271.3	1723.9	667.2	517.9	511.3	525.6	477.5	432.5	416.2	408.1	405.4
30°	2258.5	1601.7	574.5	479.9	479.1	468.6	414.3	401.9	399.2	392.6	390.2
32.5°	2261.6	1478.0	515.2	446.5	449.2	401.1	384.0	386.8	384.4	377.4	374.3
35°	2287.2	1360.4	476.4	416.2	408.1	362.3	366.2	371.2	370.5	360.8	357.7
37.5°	2333.0	1249.1	450.8	391.0	356.1	342.9	349.1	356.9	354.9	348.4	346.0
40°	2381.1	1144.4	429.8	371.2	325.5	329.7	335.2	339.4	341.4	343.3	341.8
42.5°	2428.0	1035.0	404.2	351.1	312.7	317.3	319.6	323.9	334.4	341.8	341.4
45°	2455.9	932.2	377.8	322.4	302.6	305.3	303.7	312.3	325.1	337.1	337.5
47.5°	2487.0	852.3	356.9	296.0	292.9	294.8	290.2	298.7	310.3	325.1	326.6
50°	2524.6	804.5	340.2	275.0	279.7	279.7	278.5	286.3	302.6	319.6	322.7
52.5°	2567.3	795.2	326.2	259.9	266.5	266.1	267.3	278.9	296.8	313.4	316.2
55°	2619.2	820.5	311.1	248.7	253.7	255.3	259.1	272.3	287.4	306.5	307.6
57.5°	2679.8	871.7	299.1	239.7	242.1	247.1	253.3	265.3	281.6	302.6	303.7
58°	2689.8	882.5	297.1	239.0	239.7	245.6	252.5	264.2	280.5	303.4	304.5
60°	2690.2	918.6	292.9	235.5	230.8	240.5	248.3	259.9	278.5	306.1	308.8
62.5°	2594.8	918.2	289.8	230.4	221.5	233.5	242.5	256.0	276.6	312.7	318.1
65°	2284.8	834.4	275.0	222.7	214.1	227.3	237.4	253.3	282.0	341.4	344.9
67.5°	1787.1	683.9	247.5	211.8	204.4	221.1	234.3	252.9	287.8	348.0	350.3
70°	1181.6	511.7	217.2	199.4	194.3	213.7	235.9	266.1	281.2	334.0	327.8
72.5°	613.3	359.2	192.8	183.9	182.7	207.1	258.4	264.6	274.6	314.2	306.5
75°	322.0	249.4	171.5	166.8	168.7	205.6	304.9	257.6	266.1	300.6	315.4
77.5°	197.1	201.3	153.2	151.3	155.2	200.9	304.5	248.7	253.7	276.6	292.9
80°	131.9	163.3	139.3	139.7	142.4	183.9	273.5	234.7	238.6	261.5	278.1
82.5°	83.4	96.6	126.5	133.1	129.6	151.7	232.4	213.7	219.2	299.1	316.2
85°	42.3	60.5	109.8	128.0	116.8	106.3	188.5	187.4	190.1	215.7	225.4
87.5°	19.4	33.4	85.7	111.7	88.1	66.3	136.9	138.9	149.7	153.2	153.2
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)