

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: P451399

Luminaire Tested: **GALN-SA2B-730-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451399
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2B-730-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10621 lumens
Efficiency: N/A
Efficacy: 129.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

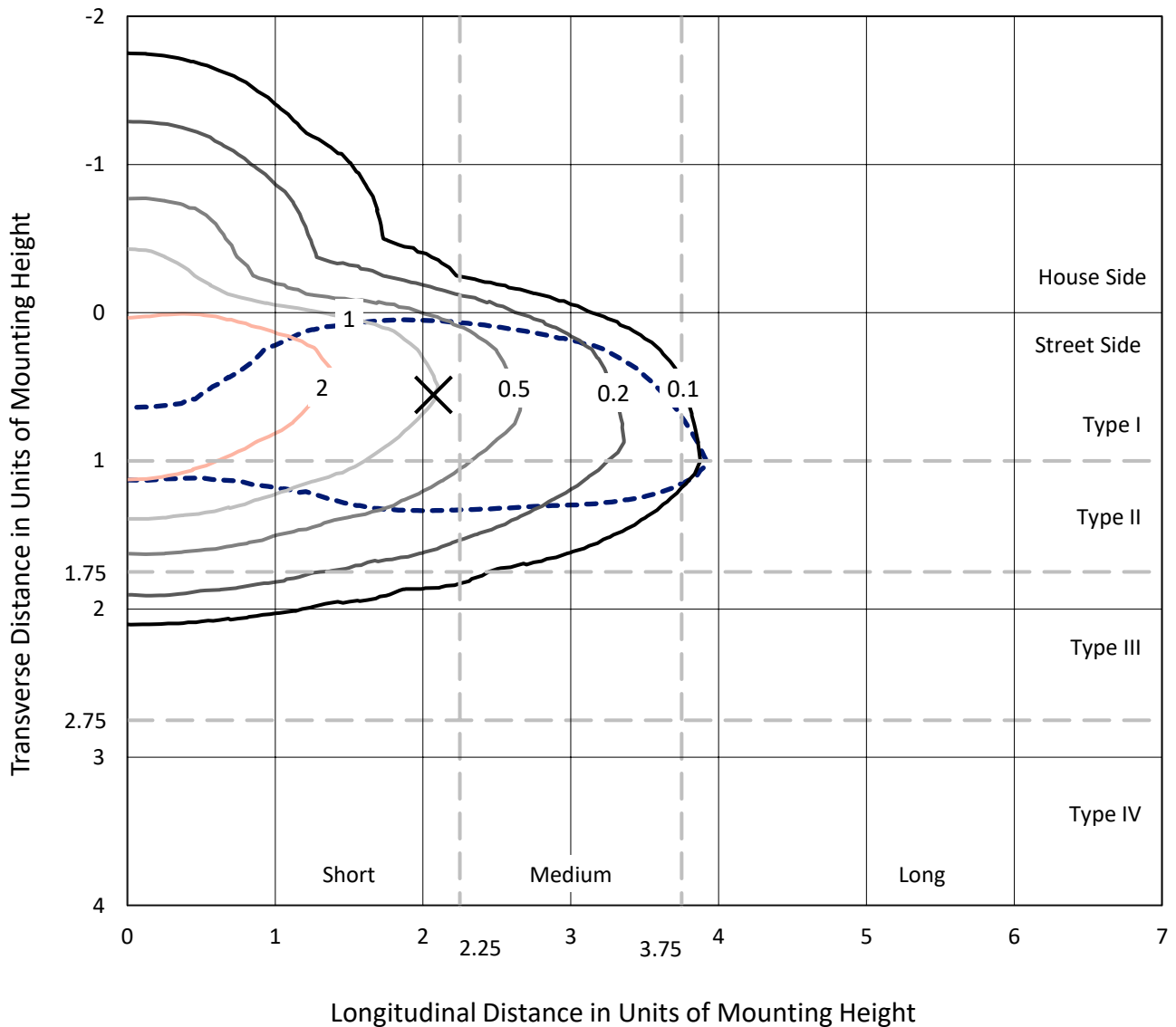
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

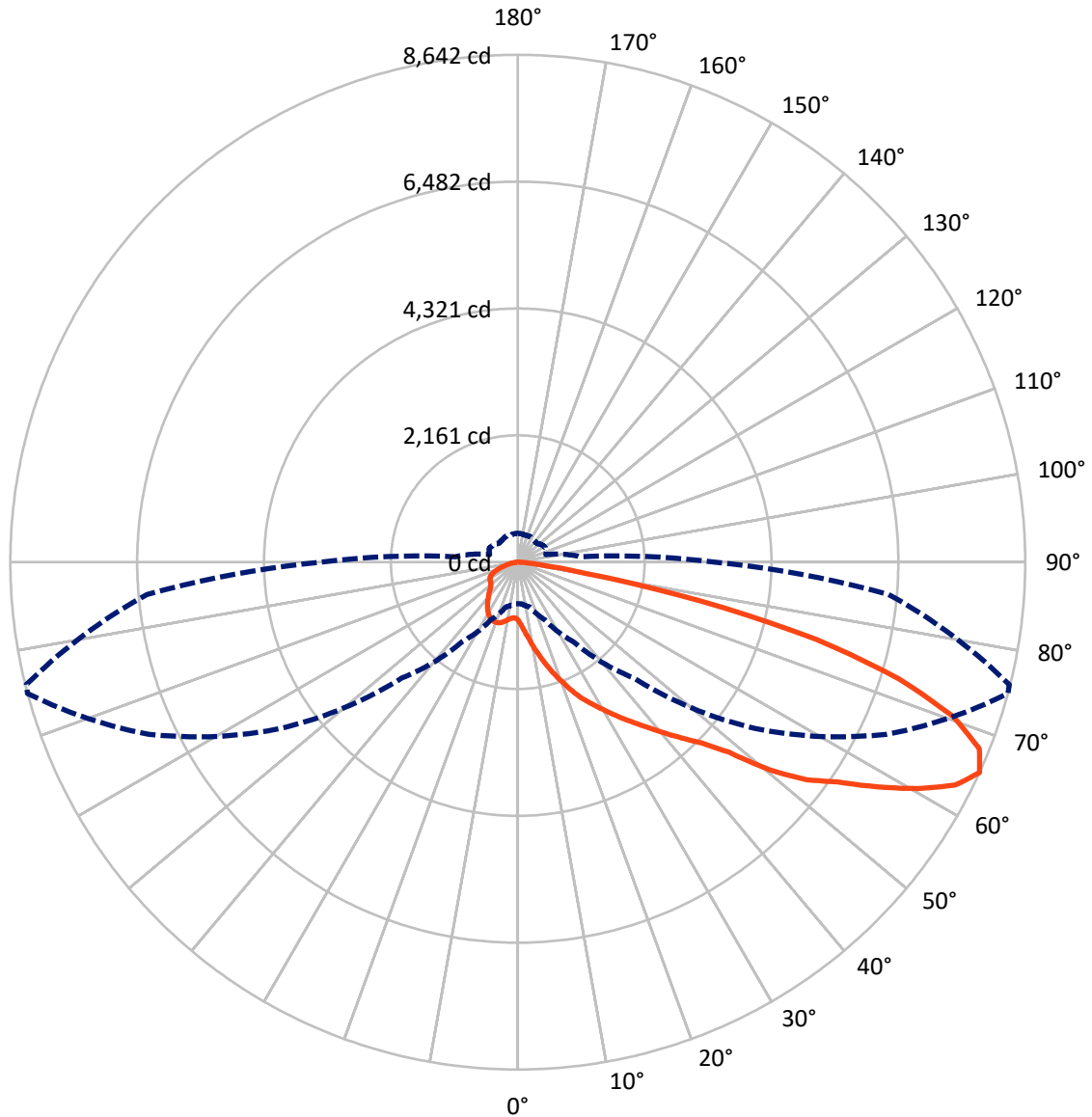
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1785.5	0.0	1785.5
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	8835.5	0.0	8835.5
	% Fixture	83.2	0.0	83.2
Total	Lumens	10621.0	0.0	10621.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.9	1.1
10°-20°	469.6	4.4
20°-30°	907.1	8.5
30°-40°	1473.5	13.9
40°-50°	2026.9	19.1
50°-60°	2393.1	22.5
60°-70°	2096.7	19.7
70°-80°	1001.0	9.4
80°-90°	133.2	1.3
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°	10621.0	100.0
0°-180°	10621.0	100.0

Coefficient of Utilization



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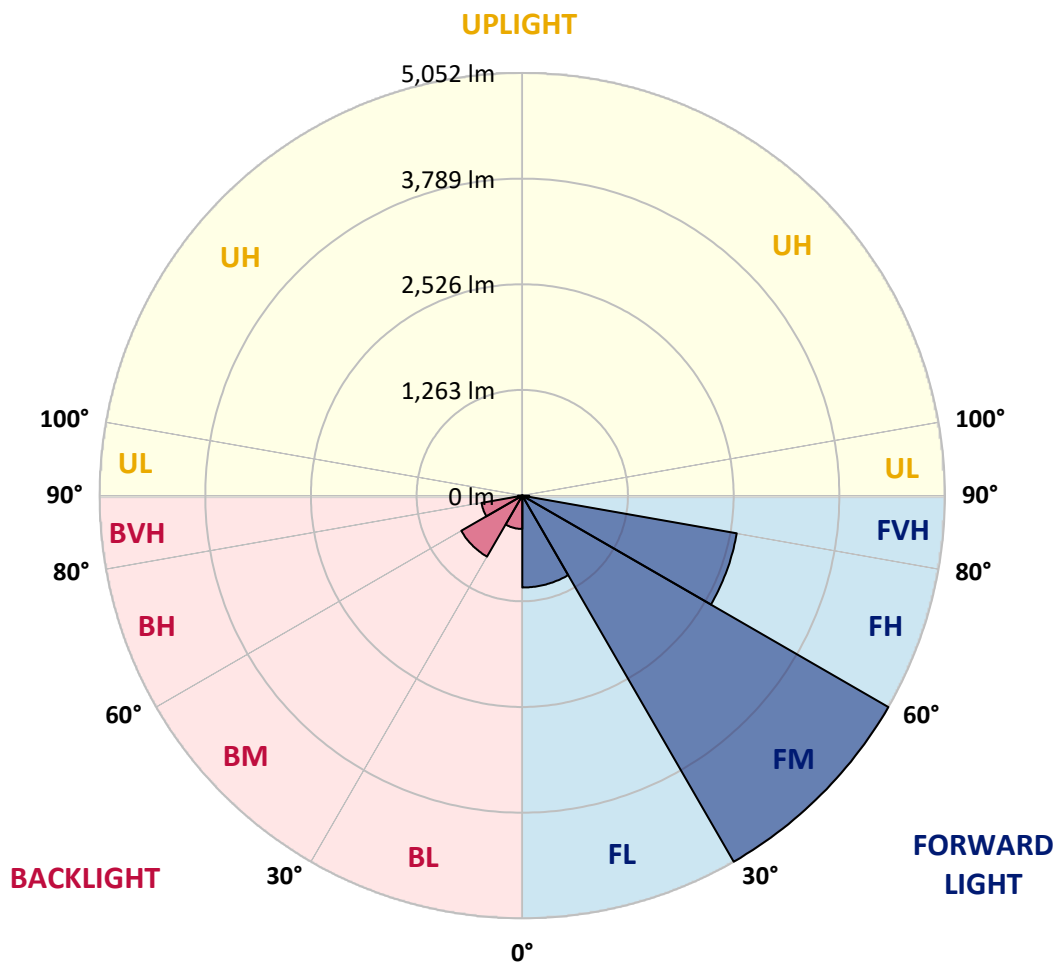
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1098.0	10.3			
FM (30°-60°)	5051.6	47.6			
FH (60°-80°)	2602.6	24.5			G2/5000
FVH (80°-90°)	83.2	0.8			G1/100
BL (0°-30°)	398.6	3.8	B1/500		
BM (30°-60°)	841.9	7.9	B1/1000		
BH (60°-80°)	495.1	4.7	B1/500		G1/500
BVH (80°-90°)	50.0	0.5			G1/100
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°	75°	76°	85°
0°	986.8	986.8	986.8	986.8	986.8	986.8	986.8	986.8	986.8	986.8	986.8
2.5°	1311.2	1302.5	1293.3	1268.0	1240.9	1210.3	1166.6	1124.5	1068.6	1066.9	1025.4
5°	1674.7	1668.9	1628.0	1604.4	1541.6	1458.1	1387.2	1277.2	1175.2	1163.1	1082.5
7.5°	2008.8	1986.3	1970.8	1928.1	1865.9	1758.8	1621.7	1473.0	1302.5	1286.4	1152.7
10°	2260.5	2258.2	2250.2	2213.3	2166.6	2060.1	1908.0	1694.8	1463.8	1432.1	1238.0
12.5°	2448.9	2450.6	2449.5	2448.9	2415.5	2325.1	2160.3	1935.6	1626.8	1604.4	1336.5
15°	2572.8	2590.1	2597.0	2625.8	2628.7	2568.2	2426.4	2168.4	1810.6	1777.2	1442.5
17.5°	2654.6	2663.2	2695.5	2744.4	2784.2	2773.2	2647.1	2383.8	1998.4	1942.5	1552.5
20°	2732.9	2747.9	2772.7	2839.5	2909.8	2942.0	2853.3	2604.5	2184.5	2148.8	1674.1
22.5°	2896.0	2917.3	2925.9	2959.9	3019.8	3076.8	3036.5	2815.9	2388.4	2340.0	1803.1
25°	3171.9	3194.4	3170.2	3162.1	3181.7	3209.9	3201.3	3015.2	2580.8	2511.7	1925.3
27.5°	3531.4	3534.3	3487.0	3442.1	3393.7	3379.3	3352.8	3192.1	2747.9	2690.3	2048.0
30°	3917.3	3903.5	3825.2	3743.9	3662.1	3581.5	3505.4	3362.6	2934.0	2867.7	2168.4
32.5°	4275.7	4268.2	4181.2	4055.0	3916.8	3840.7	3686.9	3534.8	3133.3	3069.4	2292.2
35°	4544.1	4555.1	4459.4	4321.8	4170.8	4103.4	3909.3	3715.7	3339.5	3269.8	2427.0
37.5°	4734.8	4729.0	4644.4	4525.1	4392.6	4333.8	4169.1	3913.3	3561.3	3494.5	2574.5
40°	4802.8	4799.3	4736.5	4649.5	4565.4	4544.7	4441.0	4126.5	3815.4	3737.0	2751.9
42.5°	4759.6	4767.1	4725.6	4702.0	4686.4	4701.4	4711.2	4405.9	4092.5	4020.5	2944.3
45°	4627.1	4623.0	4617.3	4655.9	4743.4	4842.0	4978.5	4669.7	4393.8	4336.2	3202.4
47.5°	4390.3	4419.1	4433.5	4540.1	4731.3	4964.7	5286.1	5023.4	4831.0	4780.9	3595.9
50°	4059.1	4082.1	4167.4	4356.9	4642.1	5010.7	5586.8	5601.8	5560.3	5466.4	4023.3
52.5°	3541.7	3577.5	3753.2	4100.5	4458.9	4991.7	5768.9	6097.8	6152.5	6082.3	4444.5
55°	2962.8	3012.9	3198.4	3654.1	4206.5	4888.0	5894.5	6385.3	6603.6	6538.5	4850.0
57.5°	2395.9	2448.9	2639.6	3080.9	3766.4	4658.8	5976.8	6705.6	7217.7	7133.0	5354.7
60°	1795.6	1850.9	2014.6	2469.1	3139.6	4210.6	5921.0	6983.2	7831.2	7794.9	5859.9
62.5°	1158.5	1219.6	1361.9	1738.0	2413.2	3598.2	5622.0	7136.5	8362.4	8318.6	6228.6
65°	705.7	712.6	791.0	1079.0	1651.6	2785.9	4938.2	6933.1	8642.4	8629.1	6340.9
67.5°	456.3	467.2	502.9	646.4	990.3	1935.1	3948.5	6262.0	8478.7	8474.1	6108.8
70°	385.4	388.9	405.0	436.1	575.5	1173.5	2772.7	5192.2	7857.2	7857.2	5550.5
72.5°	344.5	349.1	354.9	364.7	410.7	664.8	1654.5	4041.8	6783.9	6828.9	4724.4
75°	312.8	311.7	315.1	316.8	350.3	434.4	855.5	2989.3	5248.1	5158.2	3421.3
77.5°	267.9	269.6	267.9	275.4	309.4	330.7	434.4	2005.9	3180.5	3064.2	1717.3
80°	220.1	222.9	225.8	230.4	264.4	251.2	261.0	914.2	1176.4	1151.6	530.6
82.5°	165.3	169.4	174.0	184.9	208.0	165.9	164.8	390.6	424.6	388.9	195.3
85°	66.8	78.9	119.2	130.2	130.8	91.0	101.4	163.0	173.4	169.4	76.6
87.5°	15.6	18.4	38.6	58.2	53.6	34.0	37.4	53.0	60.5	55.9	25.9
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°	986.8	986.8	986.8	986.8	986.8	986.8	986.8	986.8	986.8	986.8	986.8
2.5°	1006.4	986.2	951.7	925.2	906.2	889.5	879.1	872.8	870.5	869.9	870.5
5°	1040.4	1004.7	950.0	915.4	896.4	885.4	879.1	878.5	879.1	879.7	877.9
7.5°	1087.1	1035.8	964.4	932.1	917.7	909.6	906.7	905.6	906.2	905.6	905.6
10°	1149.3	1079.0	992.6	959.2	947.1	937.9	933.2	930.4	928.1	925.8	924.6
12.5°	1217.8	1126.8	1023.1	990.9	973.6	959.2	948.8	941.3	936.1	930.9	929.8
15°	1294.5	1177.5	1057.1	1012.2	987.4	966.1	948.2	936.1	926.9	919.4	918.8
17.5°	1367.6	1225.3	1080.2	1022.0	985.7	955.7	932.1	915.4	903.9	894.1	892.9
20°	1446.0	1270.8	1090.5	1015.6	968.4	932.1	901.0	880.8	867.6	856.6	854.9
22.5°	1524.9	1309.4	1089.4	995.5	938.4	895.8	863.0	841.7	826.1	815.2	811.1
25°	1600.4	1340.5	1075.0	963.2	897.0	852.6	819.2	799.6	785.8	772.5	772.5
27.5°	1668.3	1359.0	1047.9	924.0	854.3	807.7	781.2	763.3	750.6	742.0	736.8
30°	1735.2	1367.6	1011.0	874.5	809.4	769.6	748.3	738.0	726.4	716.6	715.5
32.5°	1795.1	1365.9	964.9	826.1	766.8	738.5	729.9	721.8	709.7	695.9	692.4
35°	1853.2	1354.4	910.2	773.1	731.0	720.1	722.4	710.9	689.0	671.7	668.8
37.5°	1916.6	1333.6	850.3	729.9	701.1	711.5	717.2	691.9	656.2	629.1	622.7
40°	1989.8	1310.0	788.1	686.7	677.5	703.4	703.4	656.7	607.8	591.1	586.4
42.5°	2075.6	1290.4	736.2	650.4	657.9	683.8	680.9	610.1	589.9	581.3	579.0
45°	2211.6	1283.5	682.7	618.7	641.8	660.8	637.1	593.9	582.4	575.5	573.2
47.5°	2426.4	1291.6	635.4	595.1	623.3	637.7	588.2	583.0	574.9	565.1	564.0
50°	2625.8	1284.1	602.0	581.8	607.2	610.1	568.0	569.7	565.1	554.2	551.9
52.5°	2788.8	1260.5	580.7	574.9	593.4	561.7	549.0	555.3	553.6	539.8	537.5
55°	2968.0	1246.1	570.3	574.9	584.1	519.6	531.1	540.4	538.1	528.3	527.7
57.5°	3185.1	1248.9	562.8	576.7	574.9	498.3	513.3	524.2	523.7	520.8	520.8
60°	3407.5	1250.1	551.3	576.1	564.0	481.6	494.9	510.4	511.6	513.3	513.3
62.5°	3481.3	1200.0	528.8	565.7	539.8	465.5	477.6	498.9	497.7	502.3	502.9
65°	3343.6	1061.1	495.4	542.1	508.7	454.0	464.3	483.9	477.6	489.7	492.0
67.5°	3043.4	877.9	443.6	499.5	474.1	441.9	455.7	463.2	451.6	475.3	475.8
70°	2630.4	685.5	377.9	439.0	434.9	429.2	448.8	437.2	421.1	449.9	444.2
72.5°	2199.5	523.7	301.9	358.9	382.5	410.2	436.7	403.8	381.4	390.0	379.6
75°	1652.2	387.1	242.5	281.1	318.6	383.1	425.7	363.5	328.9	320.9	318.6
77.5°	842.2	252.9	181.5	210.3	239.1	346.2	410.7	316.3	272.5	259.8	254.1
80°	300.7	157.3	127.9	145.2	161.3	297.8	358.9	261.5	211.4	209.1	211.4
82.5°	139.4	101.4	85.8	95.1	95.6	198.7	273.6	195.3	160.7	244.3	206.2
85°	59.9	50.7	48.4	47.2	43.8	88.7	153.8	104.8	163.6	73.2	67.4
87.5°	17.9	20.2	17.9	13.2	9.8	9.8	15.6	5.8	4.0	2.9	2.9
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)