

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: P454676

Luminaire Tested: **GALN-SA5D-740-U-T2R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454676  
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-SA5D-740-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 39482 lumens  
Efficiency: N/A  
Efficacy: 127.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

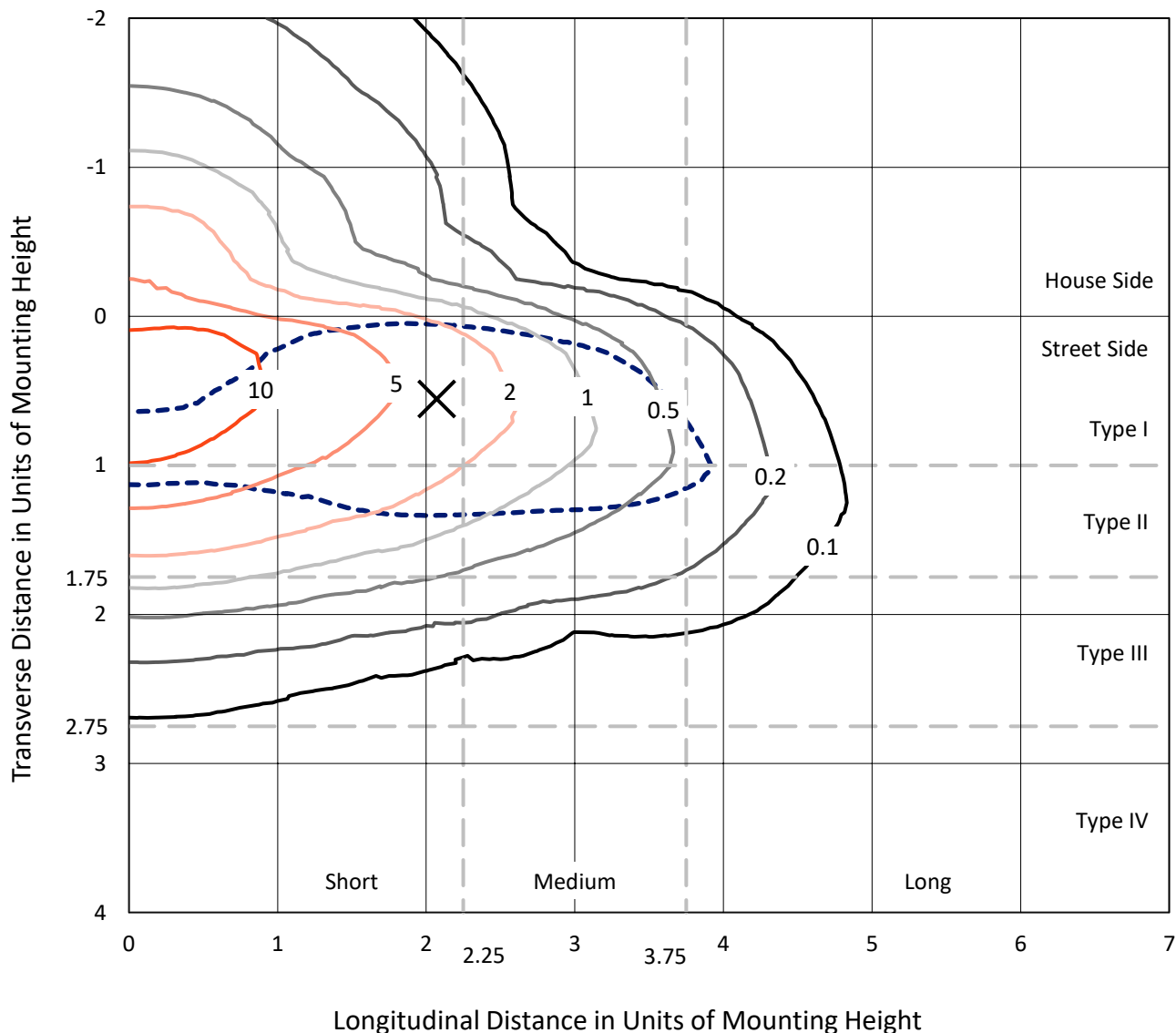
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

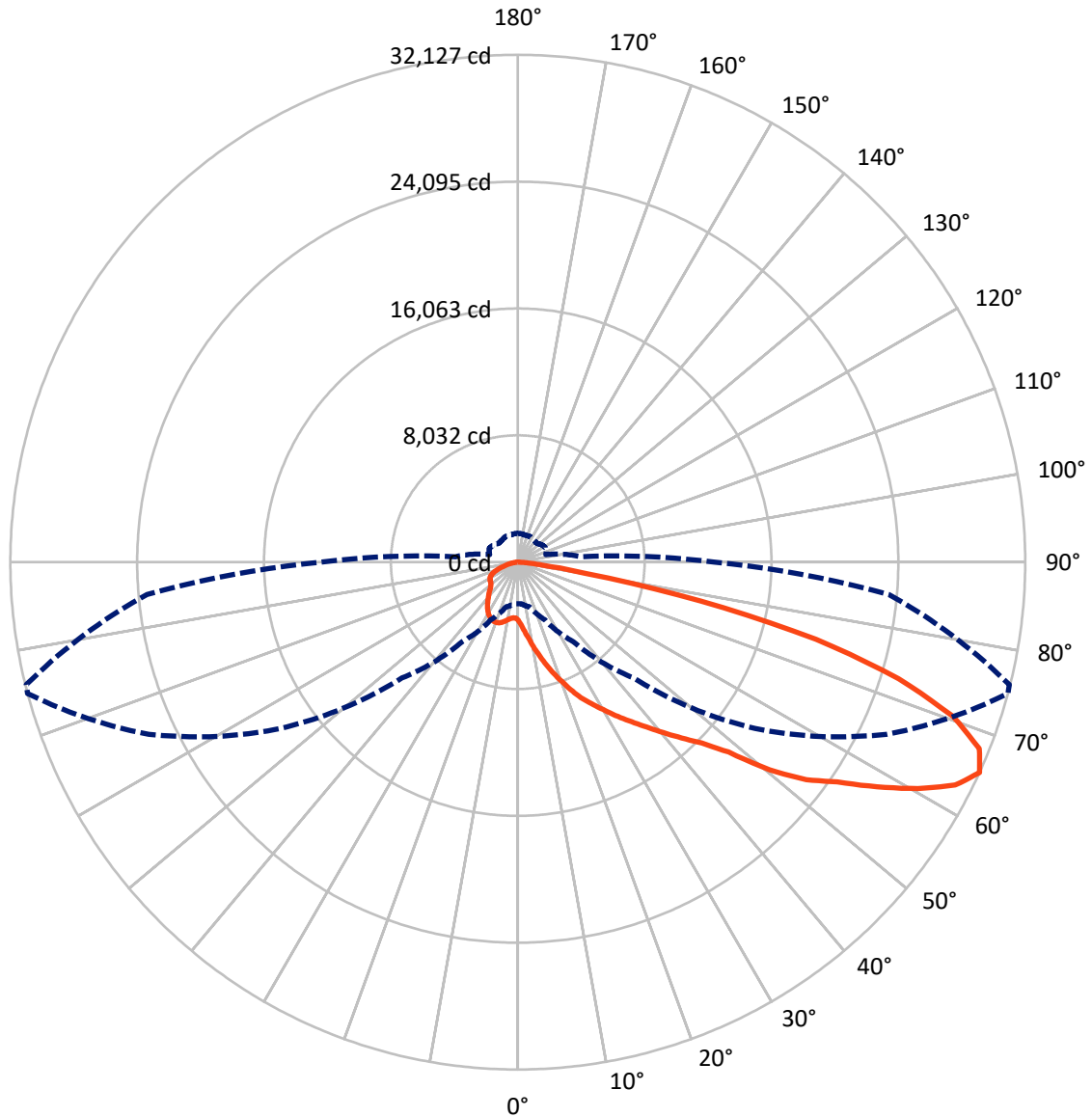
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 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
<b>House Side</b>	Lumens	6637.4	0.0	6637.4
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	32844.6	0.0	32844.6
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	39482.0	0.0	39482.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	445.7	1.1
10°-20°	1745.7	4.4
20°-30°	3372.2	8.5
30°-40°	5477.4	13.9
40°-50°	7534.7	19.1
50°-60°	8895.9	22.5
60°-70°	7794.3	19.7
70°-80°	3721.0	9.4
80°-90°	495.1	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°	39482.0	100.0
0°-180°	39482.0	100.0

**Coefficient of Utilization**



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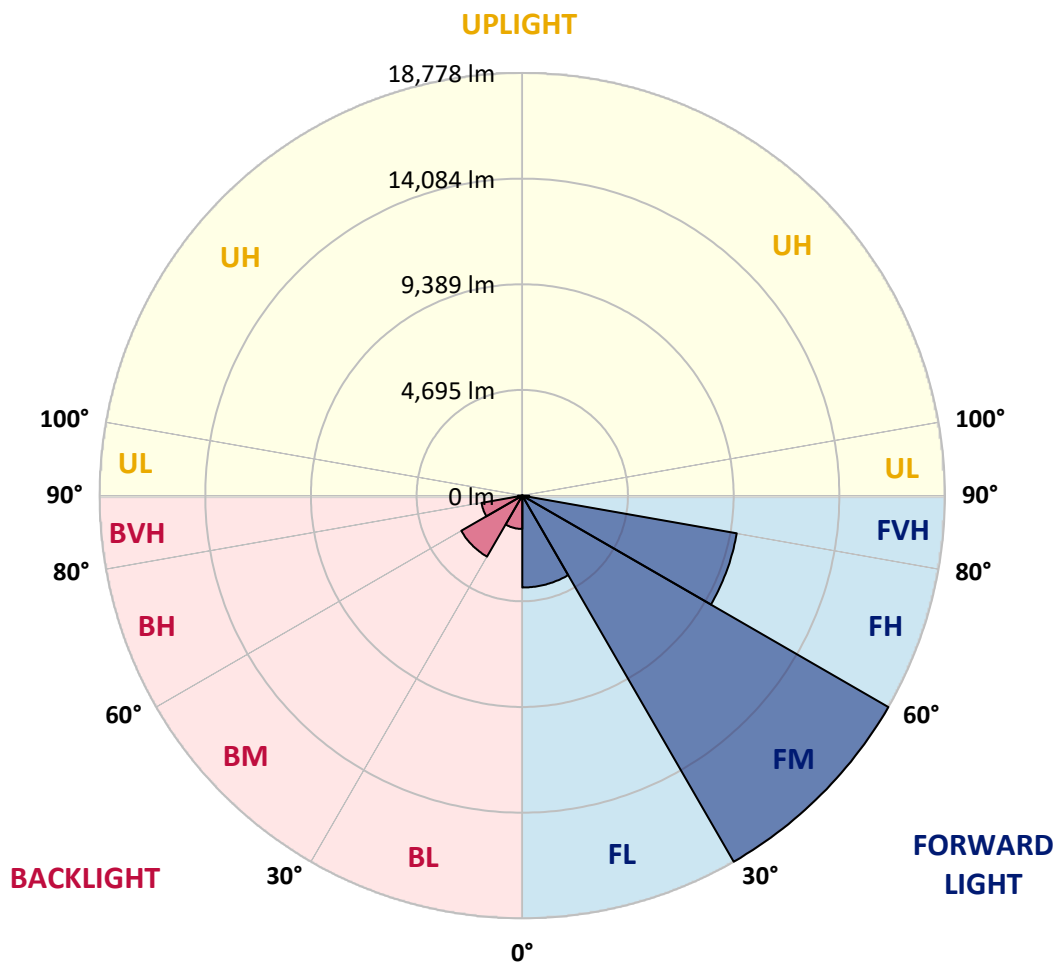
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4081.8	10.3			
FM	(30°-60°)	18778.5	47.6			
FH	(60°-80°)	9674.9	24.5			G4/12000
FVH	(80°-90°)	309.4	0.8			G3/500
BL	(0°-30°)	1481.8	3.8	B3/2500		
BM	(30°-60°)	3129.5	7.9	B3/5000		
BH	(60°-80°)	1840.4	4.7	B3/2500		G3/2500
BVH	(80°-90°)	185.7	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3668.4	3668.4	3668.4	3668.4	3668.4	3668.4	3668.4	3668.4	3668.4	3668.4	3668.4
2.5°	4874.0	4841.9	4807.7	4713.4	4612.8	4499.3	4336.5	4180.2	3972.5	3966.0	3811.9
5°	6225.3	6203.9	6051.9	5964.1	5730.6	5420.1	5156.7	4747.7	4368.6	4323.7	4023.9
7.5°	7467.4	7383.9	7326.0	7167.6	6936.3	6538.0	6028.3	5475.8	4841.9	4782.0	4285.1
10°	8403.2	8394.7	8364.7	8227.6	8054.2	7658.0	7092.6	6300.3	5441.5	5323.8	4602.1
12.5°	9103.5	9109.9	9105.6	9103.5	8979.3	8643.1	8030.6	7195.4	6047.6	5964.1	4968.3
15°	9563.9	9628.1	9653.8	9760.9	9771.6	9546.8	9020.0	8060.6	6730.7	6606.5	5362.3
17.5°	9868.0	9900.1	10020.0	10202.1	10349.8	10309.1	9840.2	8861.5	7428.8	7221.1	5771.3
20°	10159.2	10214.9	10307.0	10555.4	10816.7	10936.6	10606.8	9681.7	8120.5	7987.8	6223.2
22.5°	10765.3	10844.5	10876.6	11003.0	11225.7	11437.7	11287.8	10467.6	8878.6	8698.7	6702.9
25°	11791.1	11874.6	11784.6	11754.7	11827.5	11932.4	11900.3	11208.6	9593.9	9336.9	7156.9
27.5°	13127.3	13138.1	12962.5	12795.4	12615.5	12562.0	12463.5	11866.0	10214.9	10000.8	7613.0
30°	14562.1	14510.8	14219.5	13917.6	13613.5	13313.7	13031.0	12499.9	10906.6	10660.3	8060.6
32.5°	15894.2	15866.3	15543.0	15074.0	14560.0	14277.3	13705.6	13140.2	11647.6	11409.9	8521.0
35°	16892.1	16932.8	16577.3	16065.5	15504.4	15253.9	14532.2	13812.6	12414.2	12155.1	9022.1
37.5°	17600.9	17579.5	17264.7	16821.4	16328.9	16110.4	15498.0	14547.2	13238.7	12990.3	9570.3
40°	17853.6	17840.8	17607.4	17284.0	16971.3	16894.2	16508.8	15339.5	14183.1	13891.9	10229.9
42.5°	17693.0	17720.8	17566.7	17478.9	17421.0	17476.7	17513.1	16378.1	15213.2	14945.5	10945.2
45°	17200.5	17185.5	17164.1	17307.5	17633.0	17999.2	18506.8	17358.9	16333.2	16119.0	11904.6
47.5°	16320.3	16427.4	16480.9	16877.1	17588.1	18455.4	19650.3	18673.8	17958.6	17772.2	13367.2
50°	15089.0	15174.6	15491.6	16196.1	17256.1	18626.7	20768.2	20823.9	20669.7	20320.6	14956.2
52.5°	13165.9	13298.7	13951.8	15243.1	16575.2	18556.0	21444.9	22667.7	22871.1	22609.9	16521.6
55°	11013.7	11200.0	11889.6	13583.5	15637.2	18170.6	21911.8	23736.3	24547.9	24305.9	18029.2
57.5°	8906.5	9103.5	9812.3	11452.7	14001.1	17318.2	22218.0	24927.0	26830.8	26516.0	19905.2
60°	6675.0	6880.6	7488.8	9178.4	11671.1	15652.2	22010.3	25959.2	29111.4	28976.5	21783.3
62.5°	4306.5	4533.5	5062.5	6460.9	8970.7	13375.8	20898.8	26528.8	31085.9	30923.2	23153.8
65°	2623.3	2649.0	2940.3	4011.0	6139.7	10356.3	18356.9	25772.9	32126.7	32077.4	23571.4
67.5°	1696.1	1736.8	1869.5	2402.8	3681.2	7193.3	14677.8	23278.0	31518.5	31501.4	22708.4
70°	1432.7	1445.5	1505.5	1621.1	2139.4	4362.2	10307.0	19301.3	29207.8	29207.8	20633.3
72.5°	1280.6	1297.7	1319.2	1355.6	1526.9	2471.3	6150.4	15024.7	25218.2	25385.3	17562.4
75°	1162.8	1158.5	1171.4	1177.8	1302.0	1614.7	3180.1	11112.2	19509.0	19174.9	12718.3
77.5°	995.8	1002.2	995.8	1023.6	1150.0	1229.2	1614.7	7456.7	11823.2	11390.6	6383.8
80°	818.1	828.8	839.5	856.6	982.9	933.7	970.1	3398.5	4372.9	4280.8	1972.3
82.5°	614.6	629.6	646.7	687.4	773.1	616.7	612.5	1451.9	1578.3	1445.5	726.0
85°	248.4	293.4	443.3	484.0	486.1	338.4	376.9	606.0	644.6	629.6	284.8
87.5°	57.8	68.5	143.5	216.3	199.2	126.3	139.2	197.0	224.9	207.7	96.4
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°	3668.4	3668.4	3668.4	3668.4	3668.4	3668.4	3668.4	3668.4	3668.4	3668.4	3668.4
2.5°	3741.2	3666.2	3537.7	3439.2	3368.6	3306.5	3267.9	3244.4	3235.8	3233.7	3235.8
5°	3867.5	3734.8	3531.3	3402.8	3332.2	3291.5	3267.9	3265.8	3267.9	3270.1	3263.6
7.5°	4041.0	3850.4	3584.9	3464.9	3411.4	3381.4	3370.7	3366.4	3368.6	3366.4	3366.4
10°	4272.3	4011.0	3689.8	3565.6	3520.6	3486.3	3469.2	3458.5	3449.9	3441.4	3437.1
12.5°	4527.1	4188.8	3803.3	3683.4	3619.1	3565.6	3527.0	3499.2	3479.9	3460.7	3456.4
15°	4811.9	4377.2	3929.6	3762.6	3670.5	3591.3	3524.9	3479.9	3445.7	3417.8	3415.7
17.5°	5083.9	4555.0	4015.3	3799.0	3664.1	3552.7	3464.9	3402.8	3360.0	3323.6	3319.3
20°	5375.1	4724.1	4053.8	3775.5	3599.8	3464.9	3349.3	3274.3	3225.1	3184.4	3178.0
22.5°	5668.5	4867.6	4049.6	3700.5	3488.5	3330.0	3208.0	3128.7	3070.9	3030.2	3015.2
25°	5949.1	4983.3	3996.0	3580.6	3334.3	3169.4	3045.2	2972.4	2921.0	2871.7	2871.7
27.5°	6201.8	5051.8	3895.4	3435.0	3175.8	3002.4	2903.9	2837.5	2790.4	2758.2	2739.0
30°	6450.2	5083.9	3758.3	3250.8	3008.8	2861.0	2781.8	2743.3	2700.4	2664.0	2659.7
32.5°	6672.9	5077.5	3587.0	3070.9	2850.3	2745.4	2713.3	2683.3	2638.3	2586.9	2574.1
35°	6889.2	5034.6	3383.6	2873.9	2717.6	2676.9	2685.4	2642.6	2561.2	2497.0	2486.3
37.5°	7124.7	4957.6	3160.8	2713.3	2606.2	2644.7	2666.2	2571.9	2439.2	2338.5	2315.0
40°	7396.7	4869.8	2929.6	2552.7	2518.4	2614.8	2614.8	2441.3	2259.3	2197.2	2180.0
42.5°	7715.8	4796.9	2736.8	2417.7	2445.6	2542.0	2531.2	2267.8	2192.9	2160.8	2152.2
45°	8221.2	4771.2	2537.7	2300.0	2385.6	2456.3	2368.5	2207.9	2165.0	2139.4	2130.8
47.5°	9020.0	4801.2	2362.1	2212.2	2317.1	2370.6	2186.5	2167.2	2137.2	2100.8	2096.5
50°	9760.9	4773.4	2237.9	2162.9	2257.1	2267.8	2111.5	2117.9	2100.8	2060.1	2051.5
52.5°	10367.0	4685.6	2158.6	2137.2	2205.7	2088.0	2040.8	2064.4	2058.0	2006.6	1998.0
55°	11033.0	4632.0	2120.1	2137.2	2171.5	1931.6	1974.5	2008.7	2000.2	1963.7	1961.6
57.5°	11840.3	4642.8	2092.2	2143.6	2137.2	1852.4	1908.1	1948.8	1946.6	1935.9	1935.9
60°	12666.9	4647.0	2049.4	2141.5	2096.5	1790.3	1839.5	1897.4	1901.6	1908.1	1908.1
62.5°	12941.0	4460.7	1965.9	2102.9	2006.6	1730.3	1775.3	1854.5	1850.2	1867.4	1869.5
65°	12429.2	3944.6	1841.7	2015.1	1890.9	1687.5	1726.0	1798.9	1775.3	1820.3	1828.8
67.5°	11313.5	3263.6	1648.9	1856.7	1762.4	1642.5	1693.9	1721.8	1678.9	1766.7	1768.9
70°	9778.1	2548.4	1404.8	1631.8	1616.8	1595.4	1668.2	1625.4	1565.4	1672.5	1651.1
72.5°	8176.2	1946.6	1122.1	1334.1	1422.0	1524.7	1623.3	1501.2	1417.7	1449.8	1411.2
75°	6141.8	1439.1	901.6	1045.0	1184.2	1424.1	1582.6	1351.3	1222.8	1192.8	1184.2
77.5°	3130.9	940.1	674.6	781.6	888.7	1287.0	1526.9	1175.7	1012.9	965.8	944.4
80°	1117.9	584.6	475.4	539.7	599.6	1107.2	1334.1	972.2	785.9	777.4	785.9
82.5°	518.2	376.9	319.1	353.3	355.5	738.8	1017.2	726.0	597.5	908.0	766.7
85°	222.7	188.5	179.9	175.6	162.8	329.8	571.8	389.8	608.2	272.0	250.6
87.5°	66.4	75.0	66.4	49.3	36.4	36.4	57.8	21.4	15.0	10.7	10.7
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)