

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: P529612

Luminaire Tested: **GALN-SA4D-735-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529612
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-735-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24118 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

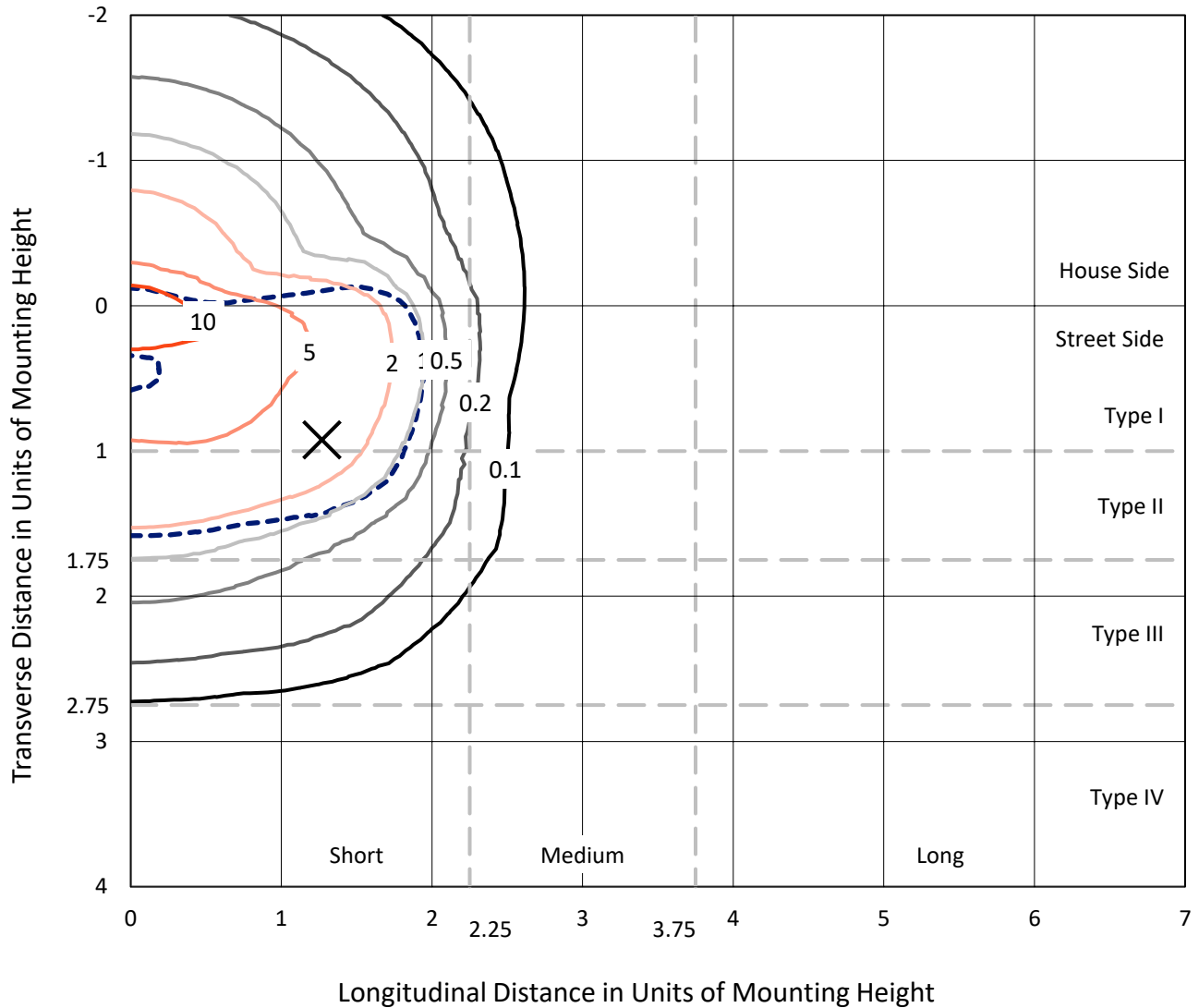
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

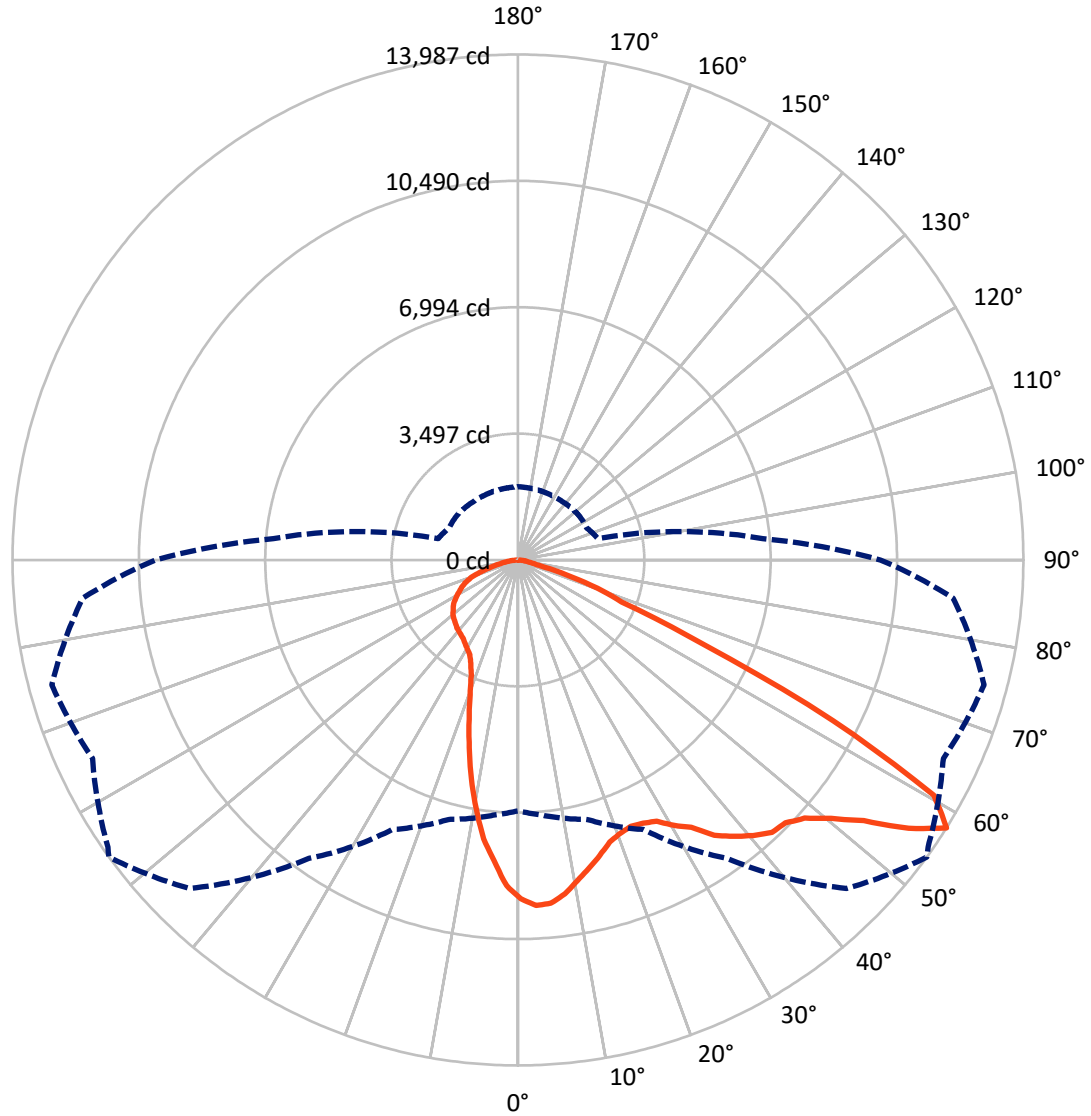
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6672.4	0.0	6672.4
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	17445.6	0.0	17445.6
	% Fixture	72.3	0.0	72.3
Total	Lumens	24118.0	0.0	24118.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	808.5	3.4
10°-20°	1871.9	7.8
20°-30°	2630.0	10.9
30°-40°	3676.7	15.2
40°-50°	4977.6	20.6
50°-60°	6062.9	25.1
60°-70°	3157.8	13.1
70°-80°	809.2	3.4
80°-90°	123.4	0.5
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°	24118.0	100.0
0°-180°	24118.0	100.0

Coefficient of Utilization

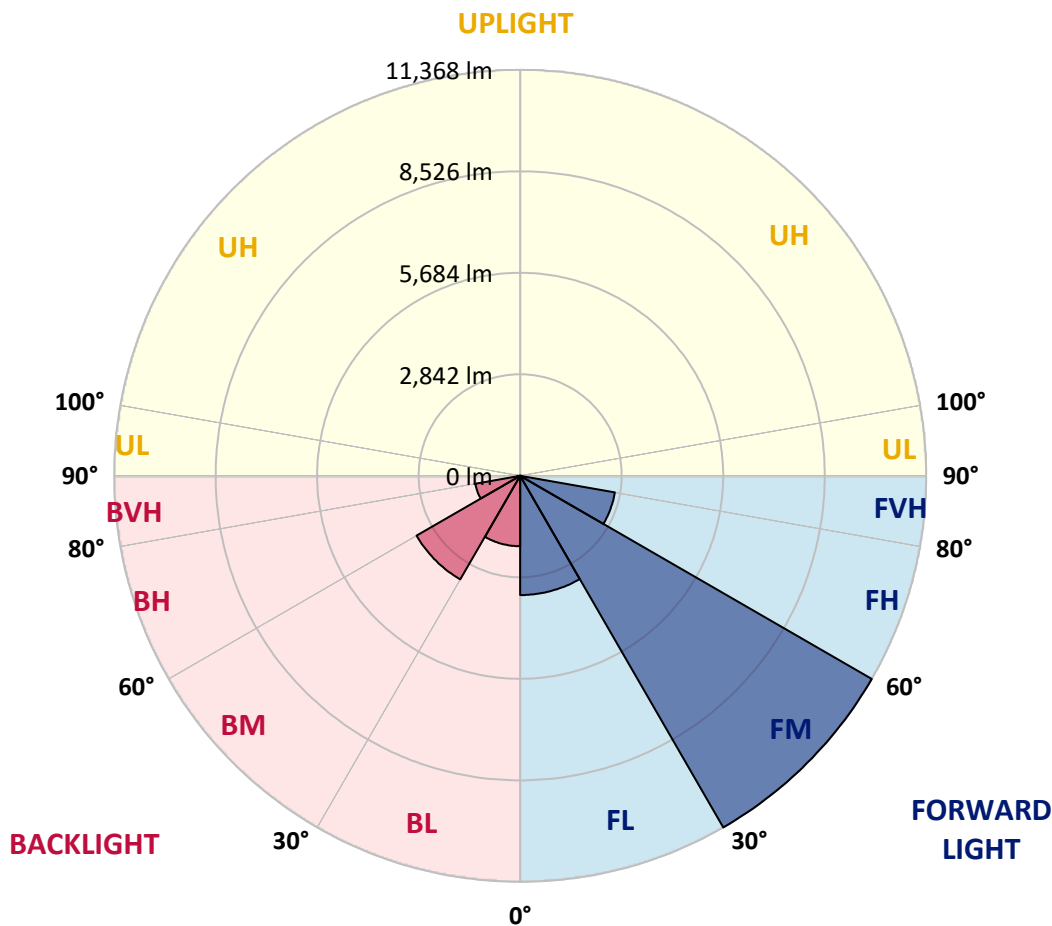


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3338.3	13.8			
FM (30°-60°)	11368.5	47.1			
FH (60°-80°)	2692.2	11.2			G2/5000
FVH (80°-90°)	46.6	0.2			G1/100
BL (0°-30°)	1972.0	8.2	B3/2500		
BM (30°-60°)	3348.8	13.9	B3/5000		
BH (60°-80°)	1274.8	5.3	B3/2500		G3/2500
BVH (80°-90°)	76.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	9374.4	9374.4	9374.4	9374.4	9374.4	9374.4	9374.4	9374.4	9374.4	9374.4	9374.4
2.5°	9641.0	9603.8	9610.0	9659.6	9597.6	9572.8	9572.8	9451.9	9461.2	9377.5	9355.8
5°	9417.8	9331.0	9389.9	9464.3	9476.7	9501.5	9541.8	9510.8	9424.0	9334.1	9188.4
7.5°	8835.0	8912.5	8934.2	8986.9	9098.5	9200.8	9327.9	9241.1	9238.0	9148.1	9061.3
10°	8323.5	8277.0	8394.8	8472.3	8658.3	8828.8	9024.1	9014.8	9061.3	8959.0	8810.2
12.5°	7815.1	7777.9	7833.7	8010.4	8270.8	8518.8	8751.3	8664.5	8912.5	8893.9	8574.6
15°	7275.7	7303.6	7384.2	7548.5	7889.5	8187.1	8481.6	8484.7	8704.8	8779.2	8351.4
17.5°	6897.5	6866.5	6968.8	7213.7	7517.5	7874.0	8208.8	8277.0	8614.9	8658.3	8283.2
20°	6615.4	6658.8	6792.1	6916.1	7266.4	7697.3	8075.5	8100.3	8596.3	8714.1	8174.7
22.5°	6547.2	6522.4	6565.8	6767.3	7055.6	7523.7	8004.2	8097.2	8593.2	8695.5	7970.1
25°	6475.9	6556.5	6553.4	6754.9	6965.7	7384.2	8063.1	8165.4	8757.5	8791.6	7998.0
27.5°	6637.1	6627.8	6714.6	6730.1	6990.5	7421.4	8187.1	8264.6	9030.3	9002.4	8019.7
30°	6798.3	6751.8	6804.5	6987.4	7108.3	7635.3	8528.1	8521.9	9383.7	9365.1	8087.9
32.5°	6996.7	6975.0	7009.1	7170.3	7374.9	7920.5	8816.4	8999.3	9743.3	9861.1	8323.5
35°	7033.9	7123.8	7204.4	7421.4	7712.8	8382.4	9358.9	9510.8	10158.7	10527.6	8773.0
37.5°	7269.5	7303.6	7492.7	7877.1	8143.7	8999.3	9703.0	9799.1	10536.9	10955.4	9247.3
40°	7520.6	7560.9	7846.1	8249.1	8614.9	9402.3	10025.4	10056.4	10657.8	11284.0	9557.3
42.5°	7861.6	7898.8	8180.9	8686.2	9176.0	9746.4	10310.6	10344.7	10648.5	11662.2	10050.2
45°	8215.0	8304.9	8636.6	9210.1	9650.3	10149.4	10375.7	10515.2	10735.3	12000.1	10450.1
47.5°	8711.0	8794.7	9067.5	9628.6	10143.2	10502.8	10676.4	10812.8	10943.0	12294.6	10707.4
50°	9238.0	9253.5	9585.2	10093.6	10471.8	10902.7	11237.5	11284.0	11215.8	12635.6	11144.5
52.5°	9625.5	9675.1	9932.4	10428.4	10992.6	11522.7	11981.5	12031.1	11897.8	12762.7	11293.3
55°	8983.8	8955.9	9374.4	10034.7	11342.9	12446.5	13113.0	13150.2	12393.8	13156.4	11780.0
57.5°	6944.0	7077.3	7433.8	8230.5	10078.1	12855.7	13987.2	13853.9	12989.0	13354.8	12090.0
60°	5046.8	5015.8	5254.5	5787.7	7595.0	11079.4	13224.6	13361.0	12502.3	12037.3	9969.6
62.5°	4110.6	4067.2	4085.8	4104.4	4901.1	7353.2	9789.8	9786.7	9628.6	8652.1	6723.9
65°	3286.0	3388.3	3397.6	3537.1	3639.4	4392.7	5673.0	5976.8	5204.9	4268.7	3096.9
67.5°	2476.9	2439.7	2563.7	3059.7	3251.9	3171.3	3096.9	3131.0	2225.8	1605.8	1512.8
70°	1460.1	1444.6	1593.4	2132.8	2678.4	2520.3	2334.3	2337.4	1528.3	1122.2	1249.3
72.5°	799.8	796.7	827.7	1081.9	1522.1	1581.0	1401.2	1444.6	911.4	908.3	976.5
75°	446.4	437.1	427.8	477.4	548.7	579.7	592.1	598.3	626.2	700.6	728.5
77.5°	164.3	158.1	158.1	182.9	232.5	291.4	368.9	375.1	443.3	508.4	536.3
80°	55.8	62.0	83.7	114.7	155.0	207.7	251.1	257.3	313.1	356.5	365.8
82.5°	34.1	37.2	55.8	80.6	111.6	145.7	186.0	189.1	232.5	260.4	272.8
85°	15.5	18.6	31.0	49.6	71.3	96.1	99.2	99.2	96.1	99.2	93.0
87.5°	0.0	0.0	6.2	6.2	6.2	9.3	12.4	9.3	15.5	18.6	18.6
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°	9374.4	9374.4	9374.4	9374.4	9374.4	9374.4	9374.4	9374.4	9374.4	9374.4	9374.4
2.5°	9290.7	9256.6	9151.2	9058.2	9030.3	8906.3	8723.4	8745.1	8611.8	8673.8	8608.7
5°	9163.6	9048.9	8779.2	8664.5	8363.8	8227.4	8134.4	7901.9	7793.4	7771.7	7678.7
7.5°	8838.1	8766.8	8428.9	8118.9	7799.6	7526.8	7176.5	6937.8	6767.3	6720.8	6584.4
10°	8580.8	8422.7	7954.6	7483.4	7027.7	6553.4	6097.7	5741.2	5567.6	5366.1	5297.9
12.5°	8326.6	8087.9	7455.5	6851.0	6262.0	5663.7	5111.9	4677.9	4299.7	4209.8	4178.8
15°	8168.5	7753.1	7009.1	6280.6	5443.6	4662.4	4110.6	3825.4	3592.9	3496.8	3565.0
17.5°	7960.8	7477.2	6581.3	5611.0	4690.3	3971.1	3509.2	3332.5	3248.8	3258.1	3230.2
20°	7700.4	7216.8	6020.2	5003.4	4017.6	3444.1	3180.6	3115.5	3127.9	3149.6	3140.3
22.5°	7514.4	6900.6	5614.1	4383.4	3472.0	3152.7	3044.2	2997.7	3038.0	3056.6	3041.1
25°	7371.8	6630.9	5121.2	3834.7	3155.8	2988.4	2938.8	2935.7	2997.7	3022.5	3007.0
27.5°	7241.6	6379.8	4631.4	3416.2	2945.0	2861.3	2845.8	2883.0	2923.3	2948.1	2969.8
30°	7164.1	6187.6	4172.6	3065.9	2839.6	2799.3	2771.4	2805.5	2827.2	2852.0	2839.6
32.5°	7238.5	6051.2	3729.3	2867.5	2752.8	2712.5	2749.7	2728.0	2765.2	2786.9	2752.8
35°	7471.0	5930.3	3413.1	2762.1	2653.6	2669.1	2675.3	2666.0	2681.5	2662.9	2703.2
37.5°	7700.4	5886.9	3121.7	2672.2	2607.1	2607.1	2600.9	2582.3	2613.3	2607.1	2625.7
40°	7991.8	5914.8	2873.7	2576.1	2563.7	2557.5	2532.7	2529.6	2517.2	2520.3	2526.5
42.5°	8246.0	5976.8	2731.1	2514.1	2523.4	2535.8	2489.3	2452.1	2467.6	2436.6	2436.6
45°	8515.7	6032.6	2604.0	2470.7	2461.4	2458.3	2421.1	2399.4	2387.0	2390.1	2418.0
47.5°	8940.4	6113.2	2507.9	2411.8	2418.0	2371.5	2362.2	2334.3	2346.7	2365.3	2368.4
50°	9241.1	6283.7	2433.5	2343.6	2365.3	2334.3	2278.5	2266.1	2266.1	2297.1	2290.9
52.5°	9451.9	6522.4	2362.2	2269.2	2278.5	2253.7	2235.1	2207.2	2188.6	2232.0	2253.7
55°	10096.7	6919.2	2343.6	2207.2	2204.1	2179.3	2145.2	2117.3	2108.0	2114.2	2157.6
57.5°	10034.7	6795.2	2284.7	2098.7	2092.5	2058.4	2024.3	2015.0	2011.9	2018.1	2030.5
60°	8146.8	5018.9	2039.8	1974.7	1965.4	1959.2	1925.1	1887.9	1869.3	1887.9	1872.4
62.5°	5390.9	3360.4	1798.0	1825.9	1832.1	1816.6	1760.8	1723.6	1729.8	1751.5	1717.4
65°	2647.4	1974.7	1630.6	1705.0	1711.2	1667.8	1615.1	1571.7	1550.0	1568.6	1553.1
67.5°	1512.8	1509.7	1494.2	1571.7	1568.6	1525.2	1441.5	1404.3	1367.1	1373.3	1364.0
70°	1283.4	1308.2	1339.2	1385.7	1382.6	1333.0	1233.8	1205.9	1153.2	1147.0	1131.5
72.5°	1010.6	1054.0	1122.2	1156.3	1128.4	1066.4	1001.3	954.8	908.3	880.4	889.7
75°	750.2	812.2	849.4	871.1	827.7	793.6	740.9	685.1	629.3	604.5	595.2
77.5°	545.6	564.2	598.3	613.8	585.9	551.8	520.8	465.0	412.3	378.2	368.9
80°	381.3	393.7	418.5	418.5	418.5	403.0	362.7	306.9	272.8	241.8	235.6
82.5°	266.6	279.0	303.8	291.4	288.3	269.7	244.9	201.5	164.3	142.6	136.4
85°	93.0	102.3	124.0	148.8	158.1	155.0	139.5	111.6	86.8	71.3	65.1
87.5°	21.7	21.7	24.8	21.7	21.7	24.8	21.7	21.7	21.7	15.5	12.4
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)