

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: P529636

Luminaire Tested: **GALN-SA4D-740-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529636
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-740-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25938 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

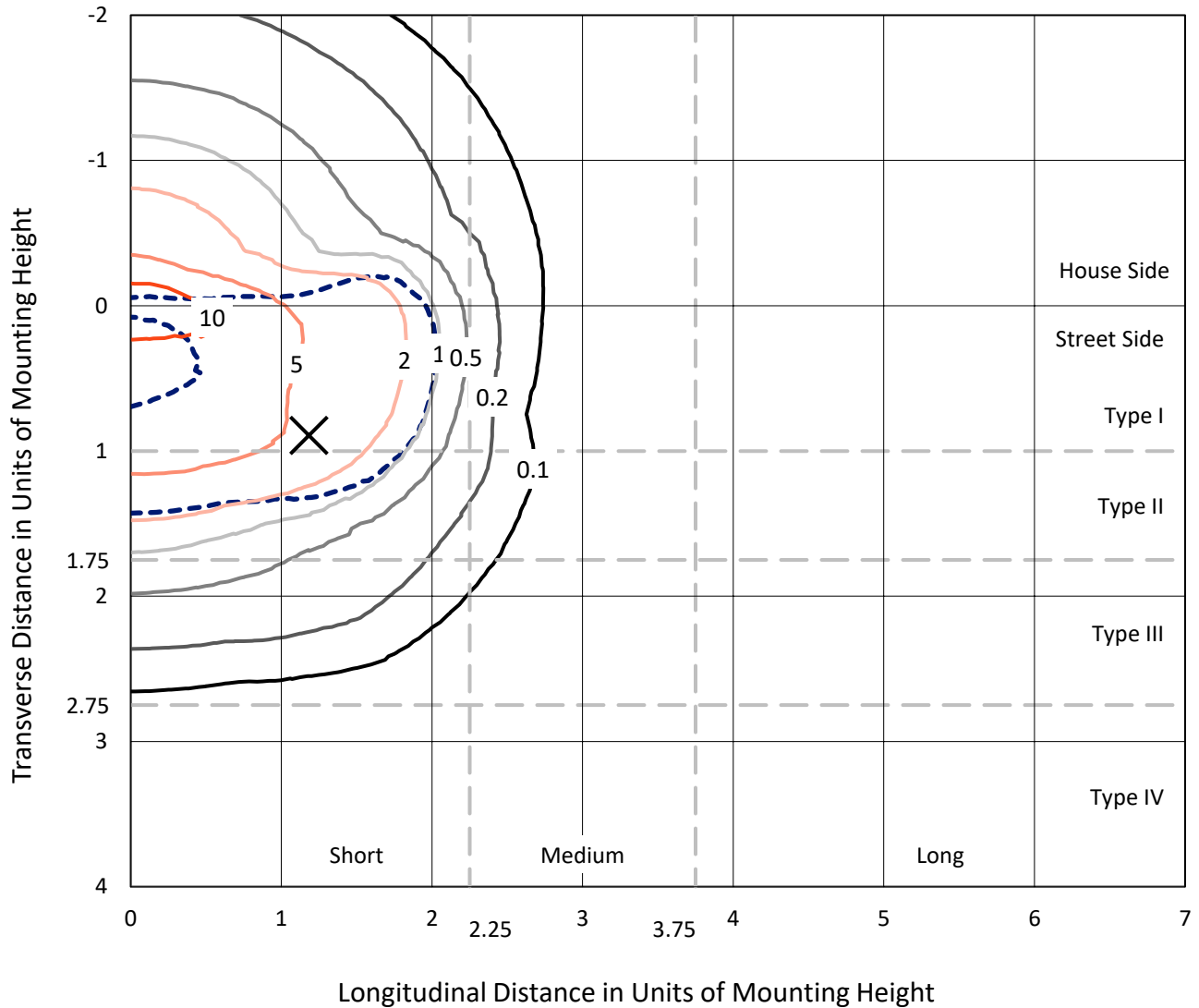
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

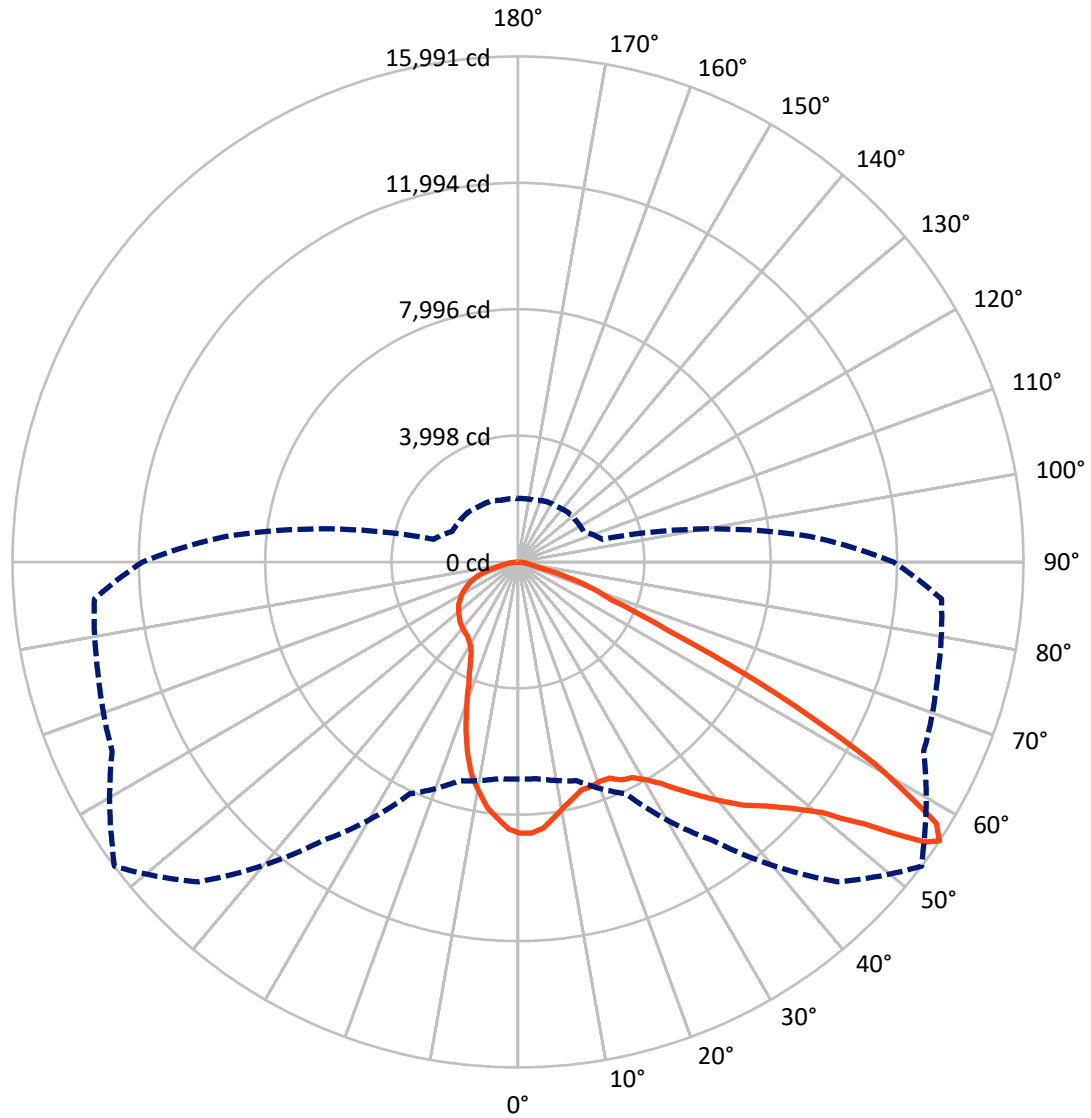
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7569.3	0.0	7569.3
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	18368.7	0.0	18368.7
	% Fixture	70.8	0.0	70.8
Total	Lumens	25938.0	0.0	25938.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	759.7	2.9
10°-20°	1897.4	7.3
20°-30°	2797.9	10.8
30°-40°	3997.6	15.4
40°-50°	5502.1	21.2
50°-60°	6502.0	25.1
60°-70°	3465.2	13.4
70°-80°	879.1	3.4
80°-90°	137.1	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°	25938.0	100.0
0°-180°	25938.0	100.0

Coefficient of Utilization



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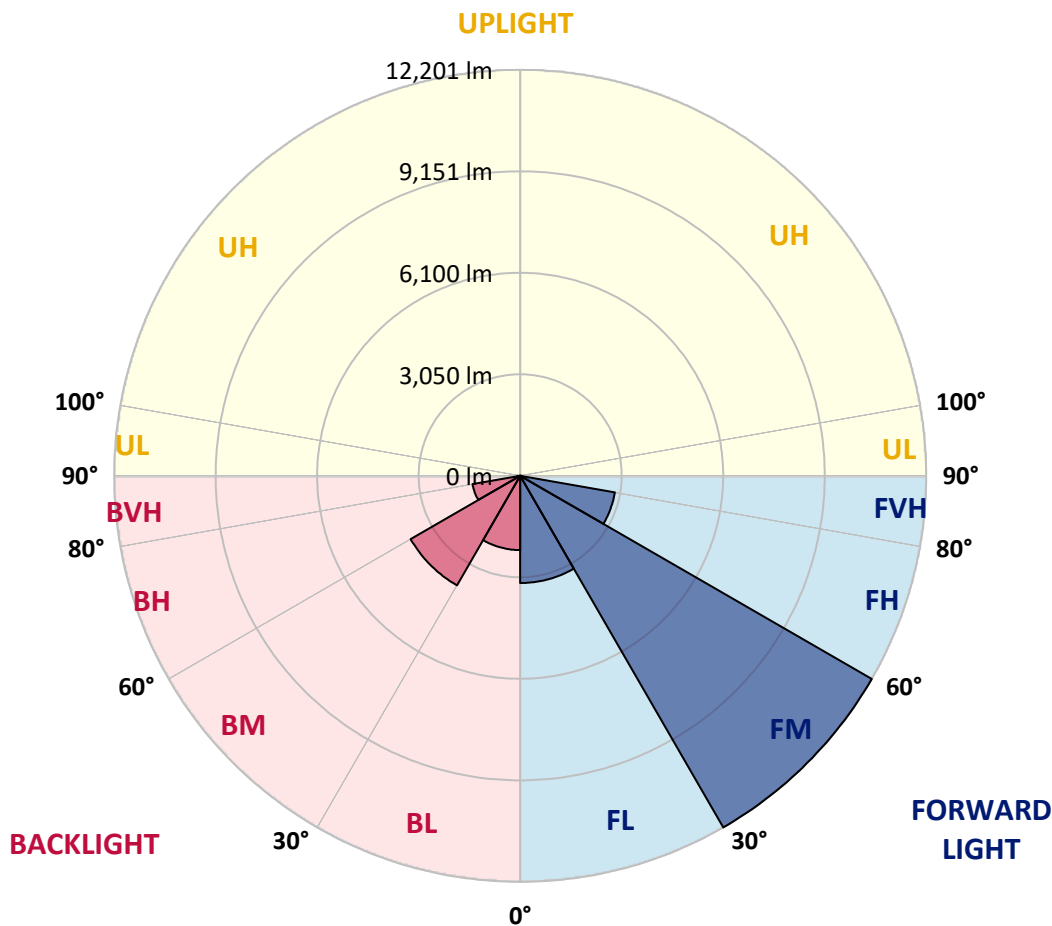
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3222.4	12.4			
FM (30°-60°)	12200.7	47.0			
FH (60°-80°)	2890.5	11.1			G2/5000
FVH (80°-90°)	55.1	0.2			G1/100
BL (0°-30°)	2232.5	8.6	B3/2500		
BM (30°-60°)	3801.0	14.7	B3/5000		
BH (60°-80°)	1453.8	5.6	B3/2500		G3/2500
BVH (80°-90°)	82.0	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°	53°	55°	65°	75°	85°
0°	8581.3	8581.3	8581.3	8581.3	8581.3	8581.3	8581.3	8581.3	8581.3	8581.3	8581.3
2.5°	8474.8	8401.6	8444.9	8428.3	8564.7	8604.6	8584.6	8601.3	8677.8	8641.2	8564.7
5°	7919.2	8022.3	8042.3	8092.2	8172.0	8328.4	8451.5	8484.8	8521.4	8691.1	8674.5
7.5°	7413.4	7483.3	7446.7	7593.1	7766.1	8019.0	8168.7	8195.3	8531.4	8624.6	8694.4
10°	7094.0	7024.1	7190.5	7230.4	7426.7	7716.2	7895.9	8005.7	8311.8	8681.1	8724.4
12.5°	6797.8	6774.5	6874.4	6987.5	7207.1	7506.6	7689.6	7732.8	8205.3	8594.6	8797.6
15°	6578.2	6551.6	6651.4	6734.6	6990.8	7257.0	7489.9	7613.0	8088.9	8544.7	8734.4
17.5°	6405.2	6401.9	6458.4	6608.2	6871.0	7094.0	7470.0	7476.6	8029.0	8621.2	8787.6
20°	6395.2	6391.9	6401.9	6568.2	6807.8	7080.7	7406.7	7466.6	8029.0	8568.0	8790.9
22.5°	6478.4	6425.2	6485.1	6591.5	6764.6	7104.0	7430.0	7563.1	8222.0	8830.9	8940.7
25°	6611.5	6624.8	6658.1	6694.7	6794.5	7157.2	7636.3	7746.1	8448.2	9057.1	9147.0
27.5°	6854.4	6847.7	6861.1	6881.0	6967.5	7207.1	7719.5	8002.3	8920.7	9459.7	9369.9
30°	7210.4	7187.1	7240.4	7310.3	7230.4	7366.8	7995.7	8208.6	9359.9	9865.7	9619.5
32.5°	7533.2	7619.7	7719.5	7749.5	7653.0	7679.6	8361.7	8578.0	9725.9	10364.8	9925.6
35°	7935.8	8005.7	8138.8	8231.9	8215.3	8135.4	8860.8	9147.0	10255.0	10730.8	10248.3
37.5°	8328.4	8411.6	8631.2	8907.4	8754.3	8717.7	9393.2	9629.4	10418.0	10927.1	10484.6
40°	8960.6	8957.3	9336.6	9479.7	9616.1	9552.9	9945.5	10025.4	10504.5	10883.9	10491.2
42.5°	9702.6	9656.1	10042.0	10265.0	10441.3	10448.0	10521.2	10494.6	10544.5	10664.3	10421.4
45°	10408.0	10507.9	10897.2	11296.5	11472.8	11492.8	11007.0	10957.1	10614.3	10601.0	10288.3
47.5°	11269.8	11293.1	11612.6	12138.3	12547.5	12407.8	11635.8	11526.0	10920.5	11023.6	10511.2
50°	11319.7	11492.8	11778.9	12397.8	13655.6	13619.0	12451.1	12244.8	11412.9	11622.5	11133.4
52.5°	10274.9	10235.0	10574.4	11585.9	13572.4	14823.5	13802.0	13309.5	12471.0	12311.3	12141.6
55°	7829.3	7922.5	8222.0	9243.5	11785.6	14840.1	15642.0	15239.4	13602.3	13329.5	13133.2
56°	6867.7	6881.0	7163.8	8095.5	10754.1	14311.1	15991.4	15665.3	14164.7	13748.7	13449.3
57.5°	5693.1	5616.6	5763.0	6272.1	9077.1	13193.1	15608.7	15928.2	14823.5	14201.3	13785.3
60°	4482.0	4465.3	4405.5	4498.6	5736.4	9938.9	12993.4	13712.1	14756.9	13775.4	13203.0
62.5°	3660.1	3576.9	3696.7	3829.8	3986.2	6165.6	9130.3	9552.9	11715.7	10997.0	9918.9
65°	2838.3	2798.3	2948.1	3380.6	3473.8	3916.3	5200.7	5526.8	6917.6	6794.5	5982.6
67.5°	1953.2	1959.8	2089.6	2748.4	3220.9	3181.0	3184.3	3354.0	3610.2	2681.9	2335.8
70°	1237.8	1234.5	1304.3	1770.2	2592.0	2618.6	2485.6	2435.6	2309.2	1397.5	1480.7
72.5°	795.2	772.0	808.6	978.2	1340.9	1550.6	1597.1	1627.1	1337.6	1098.0	1191.2
75°	449.2	425.9	412.6	455.9	529.1	612.2	672.1	692.1	775.3	831.8	881.8
77.5°	136.4	123.1	149.7	199.6	262.9	352.7	429.2	442.5	522.4	588.9	638.9
80°	59.9	66.5	93.2	133.1	186.3	249.6	302.8	322.8	376.0	425.9	439.2
82.5°	36.6	39.9	63.2	89.8	129.8	176.4	216.3	222.9	276.2	316.1	326.1
85°	13.3	16.6	33.3	53.2	83.2	113.1	113.1	123.1	113.1	113.1	123.1
87.5°	0.0	0.0	3.3	6.7	6.7	10.0	13.3	13.3	16.6	20.0	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°	8581.3	8581.3	8581.3	8581.3	8581.3	8581.3	8581.3	8581.3	8581.3	8581.3	8581.3
2.5°	8604.6	8588.0	8561.3	8464.9	8454.9	8424.9	8258.6	8231.9	8258.6	8178.7	8185.4
5°	8588.0	8637.9	8438.2	8341.7	8162.1	8032.3	7882.6	7806.0	7669.6	7583.1	7679.6
7.5°	8661.2	8641.2	8391.7	8182.0	7912.5	7583.1	7320.2	7170.5	6930.9	6864.4	6914.3
10°	8634.6	8528.1	8235.3	7959.1	7450.0	7160.5	6734.6	6322.0	6095.8	5979.3	5962.7
12.5°	8597.9	8568.0	8078.9	7603.1	7067.4	6458.4	5859.5	5470.2	5100.9	4941.2	4964.5
15°	8641.2	8388.3	7786.1	7183.8	6471.8	5673.2	5027.7	4525.2	4269.0	4165.9	4165.9
17.5°	8621.2	8301.8	7646.3	6714.7	5812.9	4868.0	4159.2	3856.4	3750.0	3750.0	3779.9
20°	8631.2	8358.4	7363.5	6245.5	5034.3	4099.3	3583.6	3473.8	3520.4	3537.0	3553.6
22.5°	8687.8	8172.0	7087.3	5729.7	4312.3	3507.1	3254.2	3257.5	3340.7	3430.5	3413.9
25°	8757.7	8098.8	6751.3	5217.3	3759.9	3217.6	3137.7	3127.7	3191.0	3237.5	3244.2
27.5°	8697.8	7972.4	6408.5	4578.5	3307.4	3024.6	3008.0	3014.6	3034.6	3127.7	3097.8
30°	8894.1	8009.0	5979.3	4042.8	3057.9	2961.4	2941.4	2931.4	2961.4	2988.0	2964.7
32.5°	9137.0	7879.2	5659.9	3527.0	2934.7	2914.8	2874.9	2861.5	2878.2	2851.6	2864.9
35°	9243.5	7855.9	5244.0	3157.7	2838.3	2821.6	2798.3	2795.0	2798.3	2775.0	2755.1
37.5°	9303.4	7965.7	4768.1	2988.0	2778.4	2795.0	2741.8	2735.1	2675.2	2688.5	2698.5
40°	9406.5	7796.1	4382.2	2824.9	2741.8	2708.5	2661.9	2651.9	2612.0	2588.7	2612.0
42.5°	9256.8	7746.1	4002.8	2755.1	2688.5	2651.9	2618.6	2562.1	2548.8	2528.8	2515.5
45°	9137.0	7460.0	3663.4	2668.6	2625.3	2605.3	2542.1	2482.2	2432.3	2452.3	2422.3
47.5°	9226.8	7360.2	3327.4	2595.4	2538.8	2515.5	2452.3	2405.7	2355.8	2332.5	2325.8
50°	9586.2	7546.5	3044.6	2542.1	2465.6	2452.3	2369.1	2315.9	2269.3	2252.6	2259.3
52.5°	10444.6	8055.6	2851.6	2432.3	2395.7	2335.8	2289.2	2222.7	2192.7	2139.5	2172.8
55°	11532.7	8884.1	2801.7	2329.2	2309.2	2256.0	2192.7	2142.8	2086.3	2043.0	2033.0
56°	11882.1	9280.1	2761.7	2289.2	2256.0	2226.0	2142.8	2112.9	2023.0	2013.1	2006.4
57.5°	12164.9	9629.4	2768.4	2212.7	2179.4	2152.8	2102.9	2029.7	1969.8	1933.2	1949.8
60°	11526.0	9013.9	2641.9	2096.2	2089.6	2039.7	1969.8	1936.5	1863.3	1820.1	1810.1
62.5°	8568.0	6119.1	2142.8	1946.5	1943.2	1890.0	1810.1	1773.5	1760.2	1700.3	1700.3
65°	4934.5	3836.5	1853.4	1823.4	1796.8	1743.5	1663.7	1633.7	1600.5	1580.5	1563.9
67.5°	2106.2	1989.8	1683.7	1680.3	1650.4	1583.8	1504.0	1457.4	1414.1	1374.2	1394.2
70°	1527.3	1550.6	1520.6	1504.0	1467.4	1384.2	1314.3	1257.7	1191.2	1164.6	1184.5
72.5°	1211.2	1261.1	1304.3	1307.7	1264.4	1167.9	1091.4	1014.9	941.6	905.0	921.7
75°	918.4	951.6	994.9	1004.9	941.6	875.1	801.9	722.0	665.5	622.2	628.9
77.5°	662.1	655.5	695.4	688.8	658.8	612.2	545.7	472.5	409.3	369.3	372.7
80°	452.5	462.5	485.8	482.5	445.9	415.9	366.0	306.1	259.5	226.3	219.6
82.5°	316.1	332.7	352.7	336.1	306.1	276.2	239.6	196.3	159.7	133.1	126.4
85°	113.1	129.8	149.7	159.7	169.7	163.0	136.4	109.8	79.9	66.5	63.2
87.5°	23.3	26.6	29.9	29.9	29.9	26.6	23.3	23.3	20.0	10.0	10.0
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)