

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: P530106

Luminaire Tested: **GALN-SA5B-740-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530106
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-SA5B-740-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 800mA 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: 24107 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

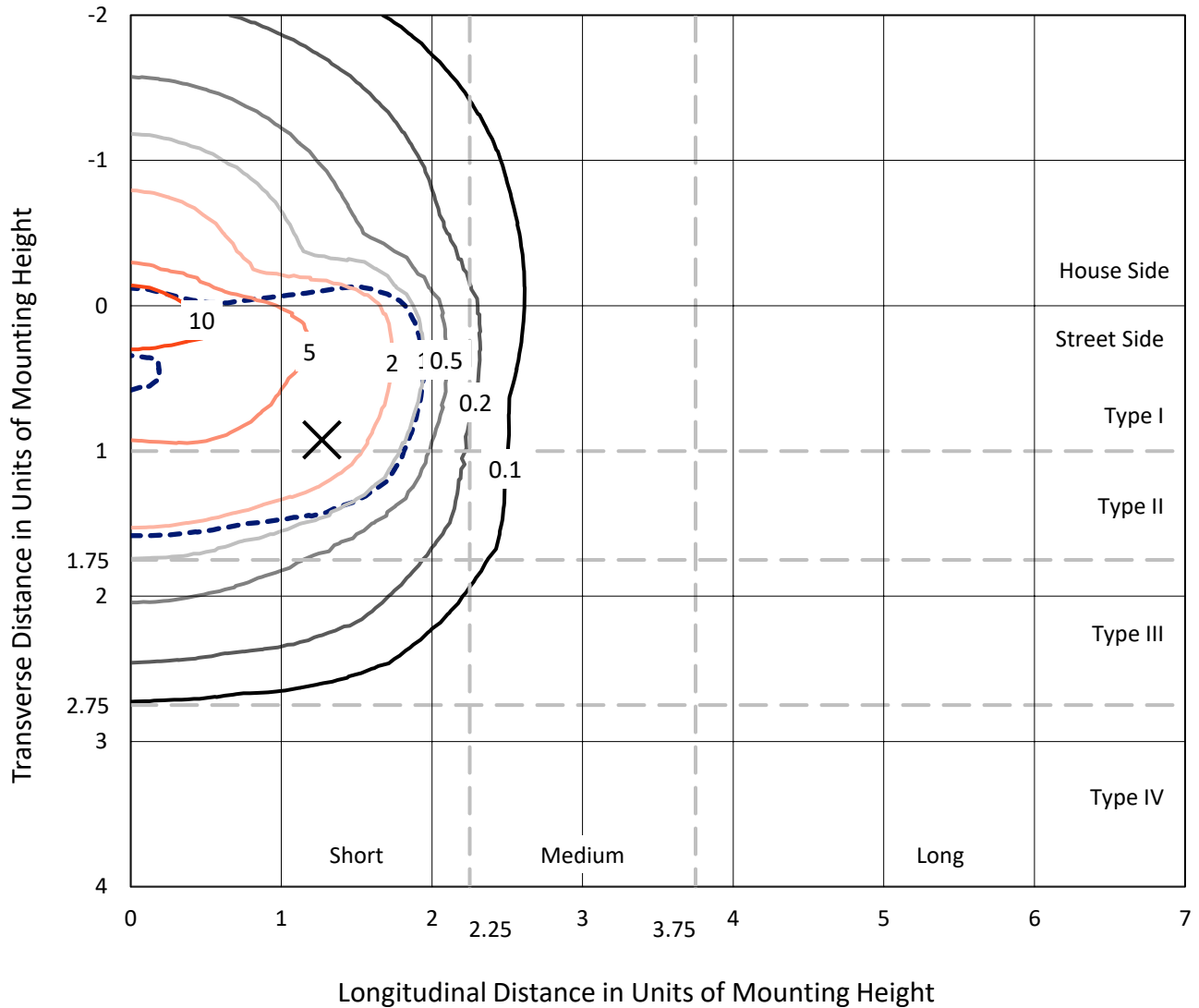
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

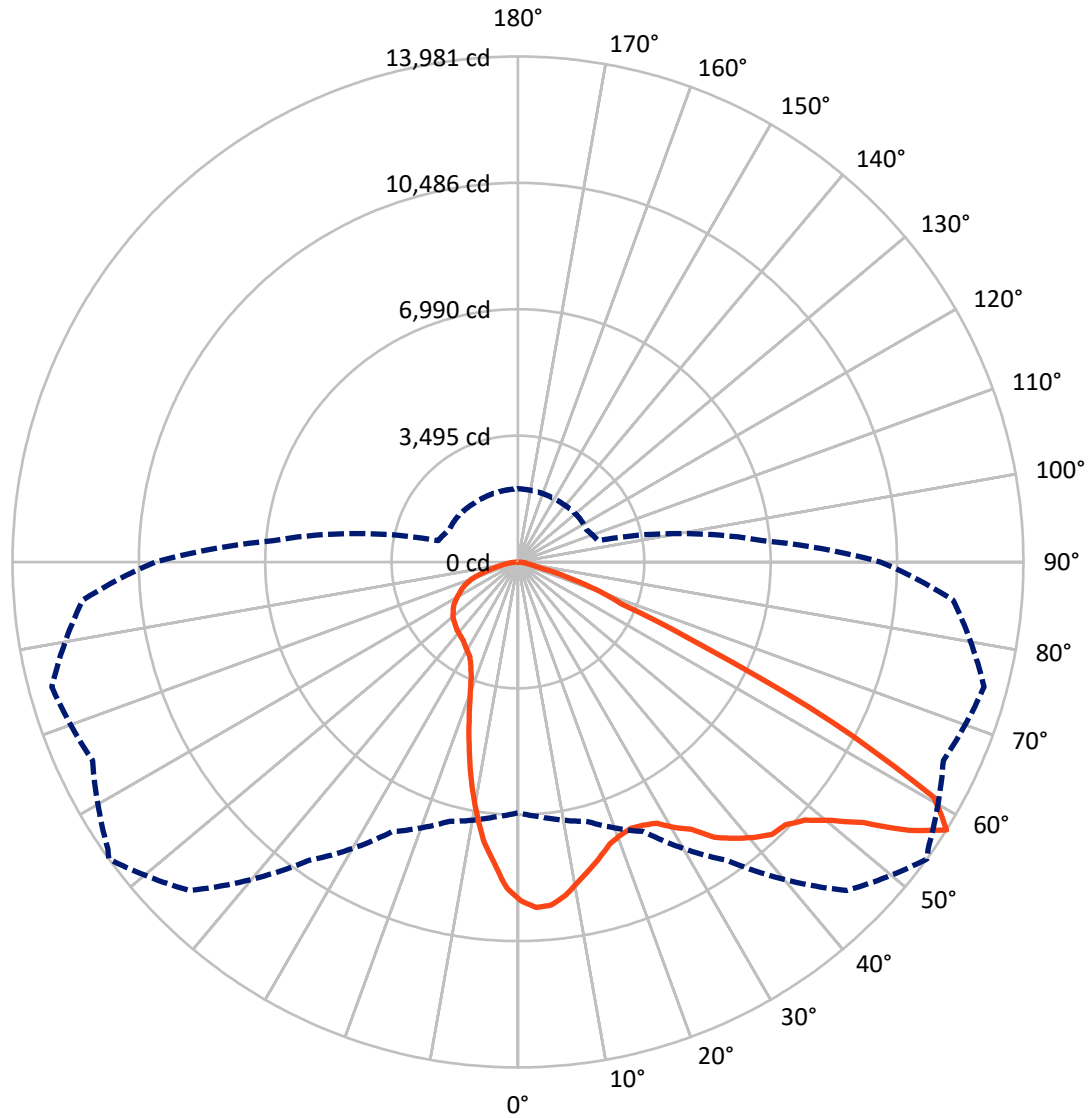
✕ Max cd
 - - - 1/2 Max cd



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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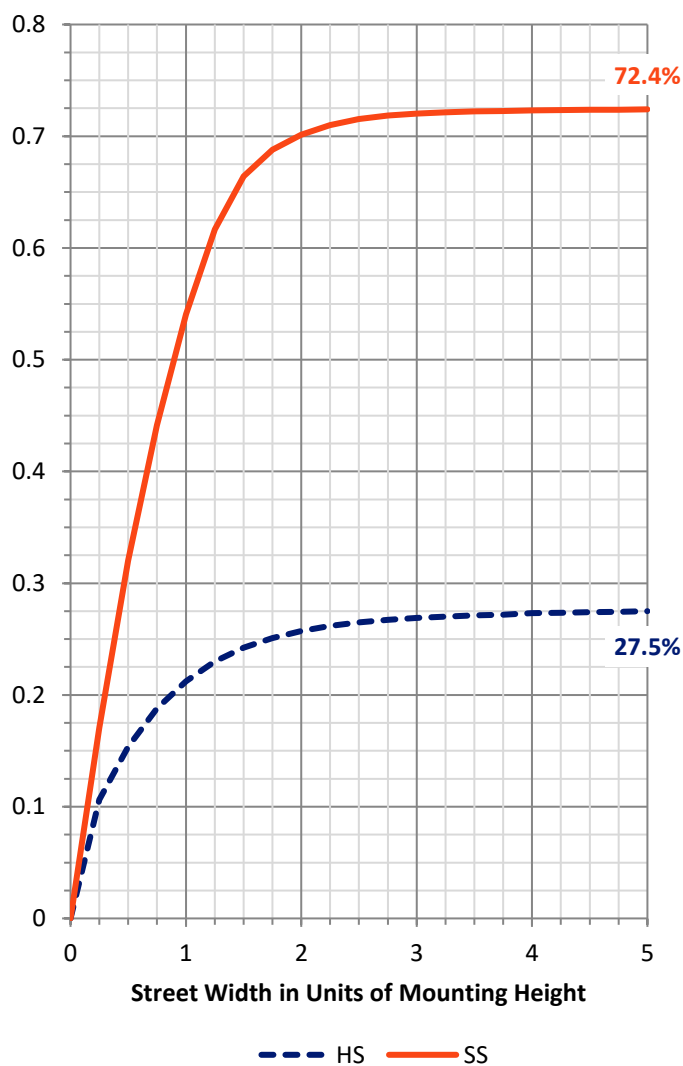
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6669.3	0.0	6669.3
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	17437.7	0.0	17437.7
	% Fixture	72.3	0.0	72.3
Total	Lumens	24107.0	0.0	24107.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	808.1	3.4
10°-20°	1871.0	7.8
20°-30°	2628.8	10.9
30°-40°	3675.1	15.2
40°-50°	4975.3	20.6
50°-60°	6060.2	25.1
60°-70°	3156.4	13.1
70°-80°	808.8	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°	24107.0	100.0
0°-180°	24107.0	100.0

Coefficient of Utilization



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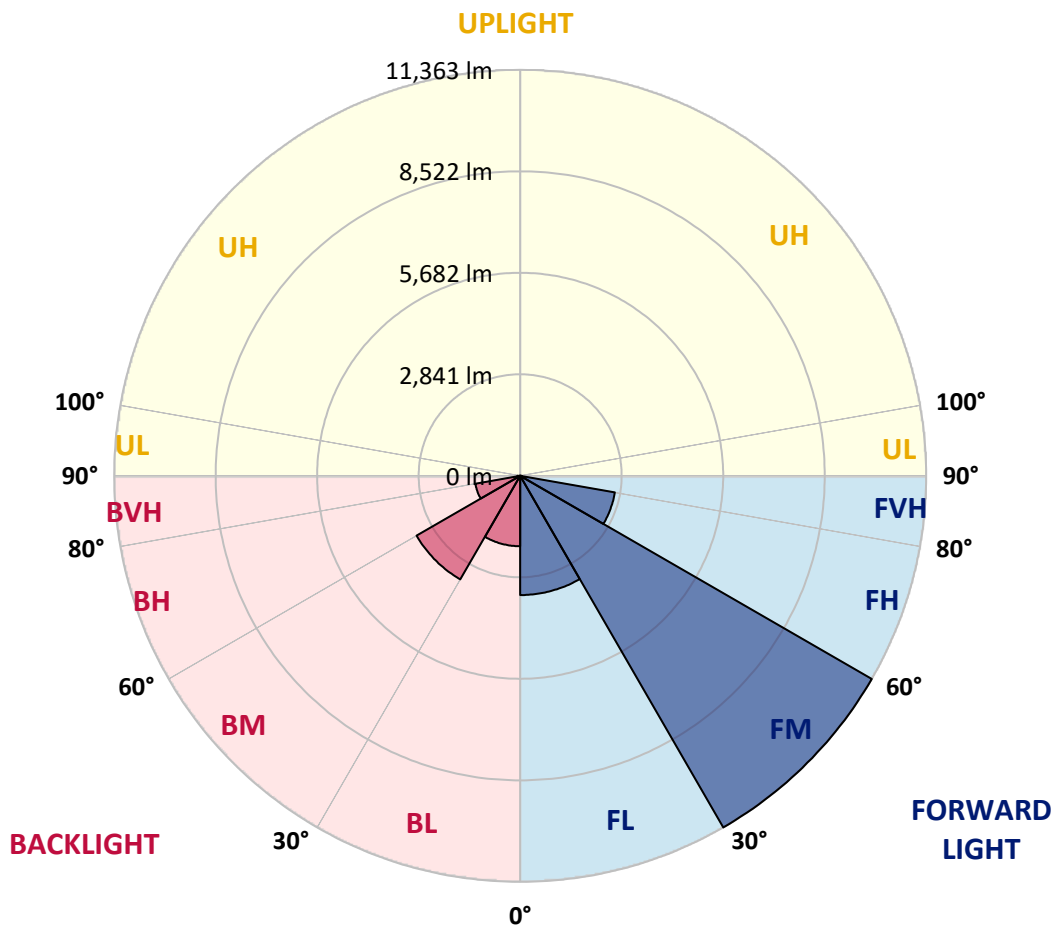
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3336.7	13.8			
FM (30°-60°)	11363.3	47.1			
FH (60°-80°)	2691.0	11.2			G2/5000
FVH (80°-90°)	46.6	0.2			G1/100
BL (0°-30°)	1971.1	8.2	B3/2500		
BM (30°-60°)	3347.3	13.9	B3/5000		
BH (60°-80°)	1274.2	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°	9370.1	9370.1	9370.1	9370.1	9370.1	9370.1	9370.1	9370.1	9370.1	9370.1	9370.1
2.5°	9636.6	9599.4	9605.6	9655.2	9593.2	9568.4	9568.4	9447.6	9456.9	9373.2	9351.5
5°	9413.5	9326.7	9385.6	9460.0	9472.4	9497.2	9537.4	9506.5	9419.7	9329.8	9184.2
7.5°	8831.0	8908.4	8930.1	8982.8	9094.3	9196.6	9323.6	9236.9	9233.8	9143.9	9057.2
10°	8319.7	8273.2	8391.0	8468.4	8654.3	8824.8	9020.0	9010.7	9057.2	8954.9	8806.2
12.5°	7811.5	7774.3	7830.1	8006.7	8267.0	8514.9	8747.3	8660.5	8908.4	8889.8	8570.7
15°	7272.4	7300.3	7380.8	7545.0	7885.9	8183.4	8477.7	8480.8	8700.8	8775.2	8347.6
17.5°	6894.3	6863.4	6965.6	7210.4	7514.1	7870.4	8205.0	8273.2	8611.0	8654.3	8279.4
20°	6612.4	6655.8	6789.0	6912.9	7263.1	7693.8	8071.8	8096.6	8592.4	8710.1	8171.0
22.5°	6544.2	6519.4	6562.8	6764.2	7052.4	7520.3	8000.5	8093.5	8589.3	8691.5	7966.5
25°	6472.9	6553.5	6550.4	6751.8	6962.5	7380.8	8059.4	8161.7	8753.5	8787.6	7994.3
27.5°	6634.1	6624.8	6711.5	6727.0	6987.3	7418.0	8183.4	8260.8	9026.2	8998.3	8016.0
30°	6795.2	6748.7	6801.4	6984.2	7105.1	7631.8	8524.2	8518.0	9379.4	9360.8	8084.2
32.5°	6993.5	6971.8	7005.9	7167.0	7371.5	7916.9	8812.4	8995.2	9738.8	9856.6	8319.7
35°	7030.7	7120.5	7201.1	7418.0	7709.3	8378.6	9354.6	9506.5	10154.1	10522.8	8769.0
37.5°	7266.2	7300.3	7489.3	7873.5	8140.0	8995.2	9698.6	9794.6	10532.1	10950.4	9243.1
40°	7517.2	7557.4	7842.5	8245.3	8611.0	9398.0	10020.8	10051.8	10652.9	11278.8	9552.9
42.5°	7858.0	7895.2	8177.2	8682.2	9171.8	9741.9	10305.9	10340.0	10643.6	11656.9	10045.6
45°	8211.2	8301.1	8632.7	9205.9	9645.9	10144.8	10371.0	10510.4	10730.4	11994.6	10445.3
47.5°	8707.0	8790.7	9063.4	9624.2	10138.6	10498.0	10671.5	10807.9	10938.0	12289.0	10702.5
50°	9233.8	9249.3	9580.8	10089.0	10467.0	10897.7	11232.4	11278.8	11210.7	12629.8	11139.4
52.5°	9621.1	9670.7	9927.9	10423.6	10987.6	11517.4	11976.0	12025.6	11892.4	12756.9	11288.1
55°	8979.7	8951.8	9370.1	10030.1	11337.7	12440.8	13107.0	13144.2	12388.1	13150.4	11774.6
57.5°	6940.8	7074.1	7430.4	8226.7	10073.5	12849.8	13980.8	13847.6	12983.1	13348.7	12084.5
60°	5044.5	5013.5	5252.1	5785.1	7591.5	11074.3	13218.6	13354.9	12496.6	12031.8	9965.0
62.5°	4108.7	4065.3	4083.9	4102.5	4898.9	7349.8	9785.3	9782.2	9624.2	8648.1	6720.8
65°	3284.5	3386.8	3396.0	3535.5	3637.7	4390.7	5670.4	5974.1	5202.5	4266.7	3095.5
67.5°	2475.8	2438.6	2562.5	3058.3	3250.4	3169.9	3095.5	3129.6	2224.8	1605.1	1512.1
70°	1459.4	1443.9	1592.7	2131.8	2677.2	2519.1	2333.2	2336.3	1527.6	1121.7	1248.7
72.5°	799.4	796.3	827.3	1081.4	1521.4	1580.3	1400.6	1443.9	911.0	907.9	976.1
75°	446.2	436.9	427.6	477.2	548.4	579.4	591.8	598.0	625.9	700.3	728.2
77.5°	164.2	158.0	158.0	182.8	232.4	291.3	368.7	374.9	443.1	508.2	536.1
80°	55.8	62.0	83.7	114.6	154.9	207.6	251.0	257.2	313.0	356.3	365.6
82.5°	34.1	37.2	55.8	80.6	111.5	145.6	185.9	189.0	232.4	260.3	272.7
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°	9370.1	9370.1	9370.1	9370.1	9370.1	9370.1	9370.1	9370.1	9370.1	9370.1	9370.1
2.5°	9286.5	9252.4	9147.0	9054.1	9026.2	8902.2	8719.4	8741.1	8607.9	8669.8	8604.8
5°	9159.4	9044.8	8775.2	8660.5	8360.0	8223.6	8130.7	7898.3	7789.8	7768.1	7675.2
7.5°	8834.1	8762.8	8425.0	8115.2	7796.0	7523.4	7173.2	6934.6	6764.2	6717.7	6581.4
10°	8576.9	8418.8	7951.0	7480.0	7024.5	6550.4	6094.9	5738.6	5565.1	5363.6	5295.5
12.5°	8322.8	8084.2	7452.1	6847.9	6259.1	5661.1	5109.6	4675.8	4297.7	4207.9	4176.9
15°	8164.8	7749.6	7005.9	6277.7	5441.1	4660.3	4108.7	3823.7	3591.3	3495.2	3563.4
17.5°	7957.2	7473.8	6578.3	5608.4	4688.2	3969.3	3507.6	3331.0	3247.3	3256.6	3228.7
20°	7696.9	7213.5	6017.4	5001.1	4015.8	3442.5	3179.1	3114.1	3126.5	3148.2	3138.9
22.5°	7511.0	6897.4	5611.5	4381.4	3470.4	3151.3	3042.8	2996.3	3036.6	3055.2	3039.7
25°	7368.4	6627.9	5118.9	3832.9	3154.4	2987.0	2937.5	2934.4	2996.3	3021.1	3005.6
27.5°	7238.3	6376.9	4629.3	3414.6	2943.7	2860.0	2844.5	2881.7	2922.0	2946.8	2968.4
30°	7160.8	6184.8	4170.7	3064.5	2838.3	2798.0	2770.1	2804.2	2825.9	2850.7	2838.3
32.5°	7235.2	6048.4	3727.6	2866.2	2751.5	2711.3	2748.4	2726.8	2763.9	2785.6	2751.5
35°	7467.6	5927.6	3411.5	2760.8	2652.4	2667.9	2674.1	2664.8	2680.3	2661.7	2702.0
37.5°	7696.9	5884.2	3120.3	2671.0	2605.9	2605.9	2599.7	2581.1	2612.1	2605.9	2624.5
40°	7988.1	5912.1	2872.4	2574.9	2562.5	2556.3	2531.5	2528.4	2516.0	2519.1	2525.3
42.5°	8242.2	5974.1	2729.9	2513.0	2522.2	2534.6	2488.2	2451.0	2466.5	2435.5	2435.5
45°	8511.8	6029.8	2602.8	2469.6	2460.3	2457.2	2420.0	2398.3	2385.9	2389.0	2416.9
47.5°	8936.3	6110.4	2506.8	2410.7	2416.9	2370.4	2361.1	2333.2	2345.6	2364.2	2367.3
50°	9236.9	6280.8	2432.4	2342.5	2364.2	2333.2	2277.5	2265.1	2265.1	2296.0	2289.9
52.5°	9447.6	6519.4	2361.1	2268.2	2277.5	2252.7	2234.1	2206.2	2187.6	2231.0	2252.7
55°	10092.1	6916.0	2342.5	2206.2	2203.1	2178.3	2144.2	2116.3	2107.0	2113.2	2156.6
57.5°	10030.1	6792.1	2283.7	2097.7	2091.5	2057.5	2023.4	2014.1	2011.0	2017.2	2029.6
60°	8143.1	5016.6	2038.9	1973.8	1964.5	1958.3	1924.2	1887.0	1868.4	1887.0	1871.5
62.5°	5388.4	3358.9	1797.2	1825.1	1831.3	1815.8	1760.0	1722.8	1729.0	1750.7	1716.6
65°	2646.2	1973.8	1629.9	1704.2	1710.4	1667.0	1614.4	1571.0	1549.3	1567.9	1552.4
67.5°	1512.1	1509.0	1493.5	1571.0	1567.9	1524.5	1440.8	1403.7	1366.5	1372.7	1363.4
70°	1282.8	1307.6	1338.6	1385.1	1382.0	1332.4	1233.2	1205.3	1152.7	1146.5	1131.0
72.5°	1010.1	1053.5	1121.7	1155.8	1127.9	1065.9	1000.8	954.4	907.9	880.0	889.3
75°	749.9	811.8	849.0	870.7	827.3	793.2	740.6	684.8	629.0	604.2	594.9
77.5°	545.4	563.9	598.0	613.5	585.6	551.5	520.6	464.8	412.1	378.0	368.7
80°	381.1	393.5	418.3	418.3	418.3	402.8	362.5	306.8	272.7	241.7	235.5
82.5°	266.5	278.9	303.7	291.3	288.2	269.6	244.8	201.4	164.2	142.5	136.3
85°	93.0	102.3	123.9	148.7	158.0	154.9	139.4	111.5	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)