

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: P529560

Luminaire Tested: **GALN-SA4D-727-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529560
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-727-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 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: 21652 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

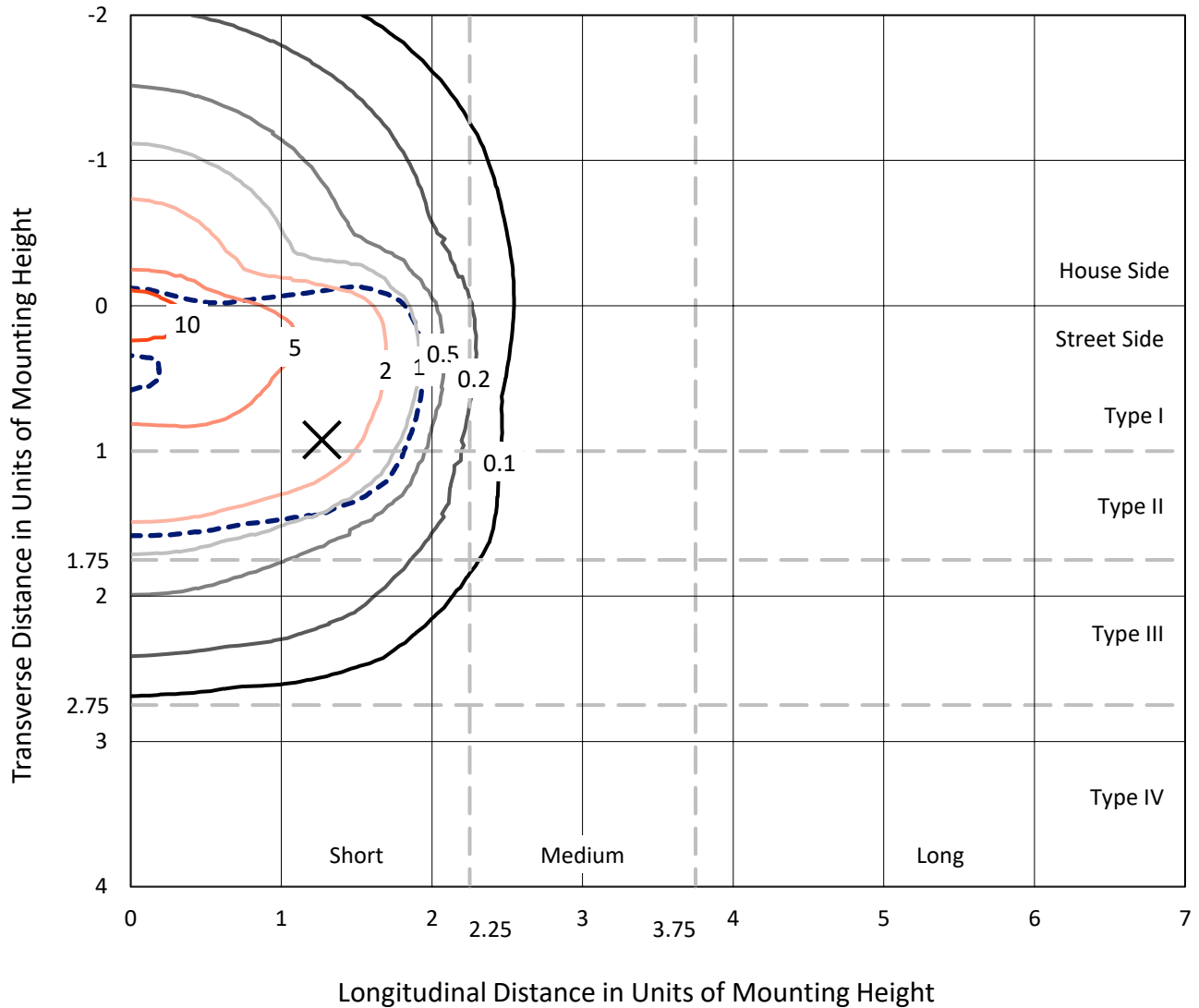
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

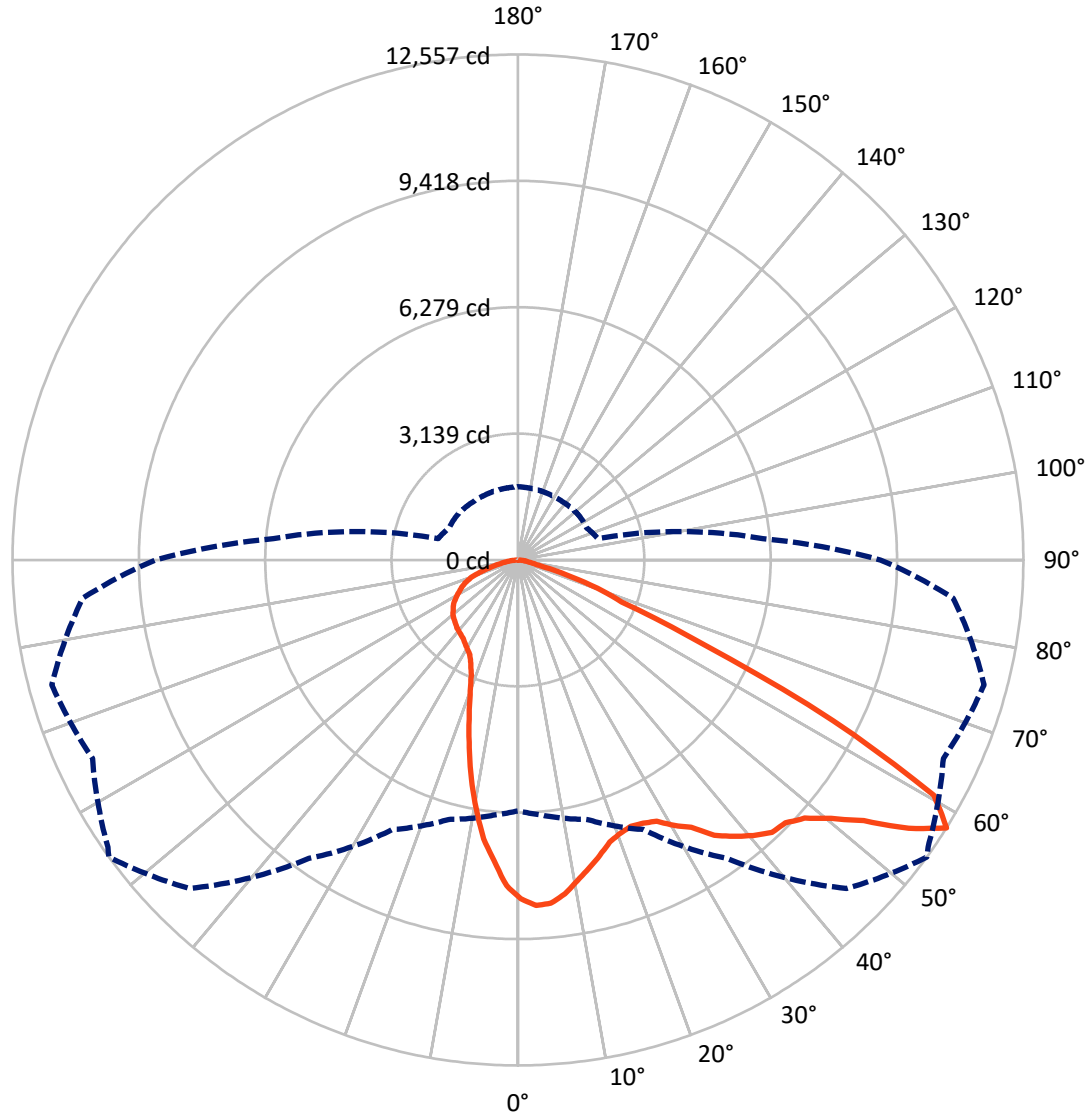
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 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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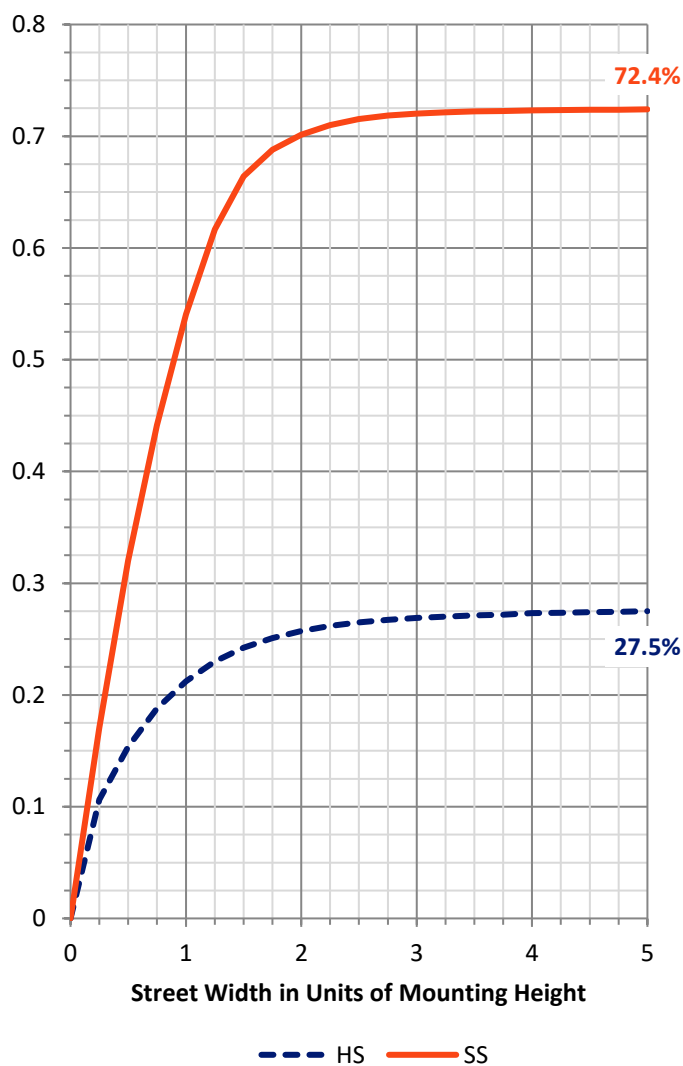
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5990.2	0.0	5990.2
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	15661.9	0.0	15661.9
	% Fixture	72.3	0.0	72.3
Total	Lumens	21652.0	0.0	21652.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	725.8	3.4
10°-20°	1680.5	7.8
20°-30°	2361.1	10.9
30°-40°	3300.8	15.2
40°-50°	4468.7	20.6
50°-60°	5443.0	25.1
60°-70°	2835.0	13.1
70°-80°	726.4	3.4
80°-90°	110.8	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°	21652.0	100.0
0°-180°	21652.0	100.0

Coefficient of Utilization

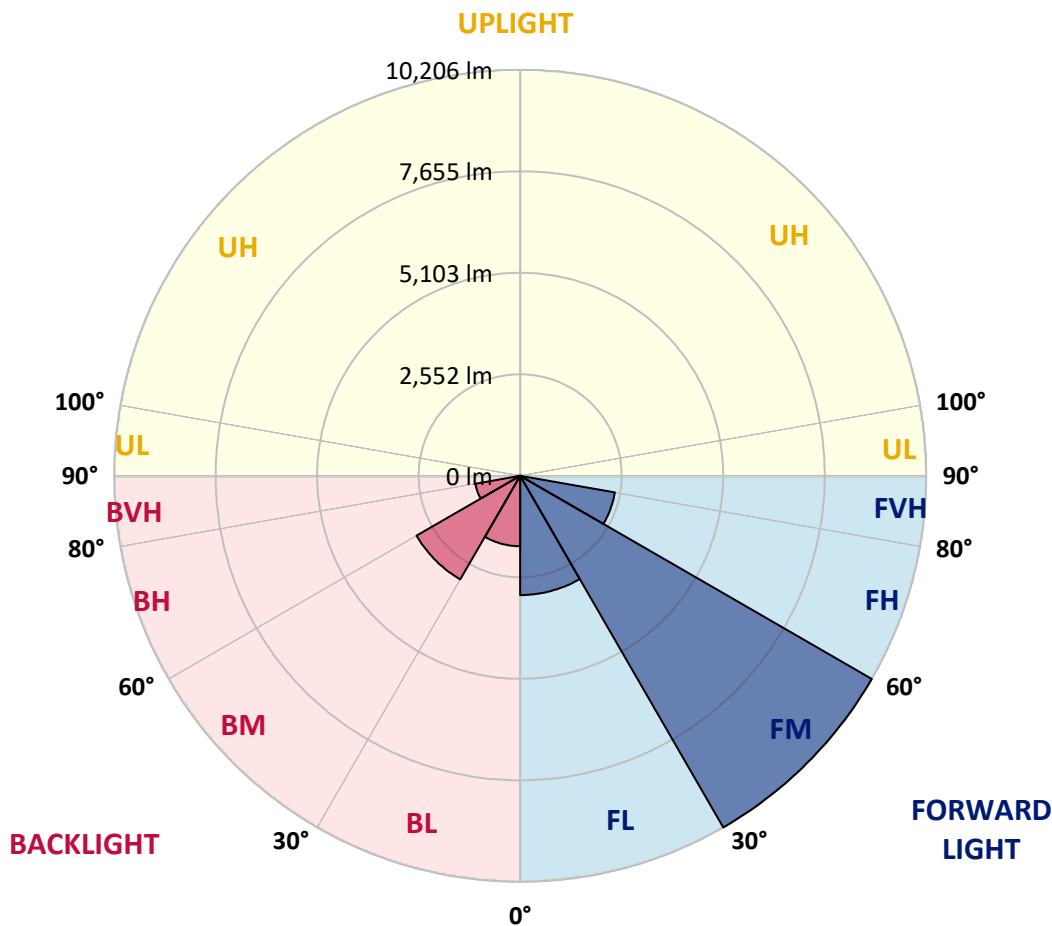


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2996.9	13.8			
FM (30°-60°)	10206.1	47.1			
FH (60°-80°)	2417.0	11.2			G2/5000
FVH (80°-90°)	41.9	0.2			G1/100
BL (0°-30°)	1770.4	8.2	B3/2500		
BM (30°-60°)	3006.4	13.9	B3/5000		
BH (60°-80°)	1144.4	5.3	B3/2500		G3/2500
BVH (80°-90°)	68.9	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°	8415.9	8415.9	8415.9	8415.9	8415.9	8415.9	8415.9	8415.9	8415.9	8415.9	8415.9
2.5°	8655.2	8621.8	8627.4	8671.9	8616.3	8594.0	8594.0	8485.5	8493.8	8418.7	8399.2
5°	8454.8	8376.9	8429.8	8496.6	8507.7	8530.0	8566.2	8538.3	8460.4	8379.7	8248.9
7.5°	7931.6	8001.2	8020.7	8068.0	8168.2	8260.0	8374.1	8296.2	8293.4	8212.7	8134.8
10°	7472.4	7430.7	7536.4	7606.0	7773.0	7926.1	8101.4	8093.1	8134.8	8043.0	7909.4
12.5°	7016.0	6982.6	7032.7	7191.4	7425.1	7647.8	7856.5	7778.6	8001.2	7984.5	7697.9
15°	6531.8	6556.8	6629.2	6776.7	7082.8	7350.0	7614.4	7617.2	7814.7	7881.5	7497.5
17.5°	6192.2	6164.4	6256.3	6476.1	6748.8	7068.9	7369.5	7430.7	7734.0	7773.0	7436.3
20°	5939.0	5977.9	6097.6	6208.9	6523.4	6910.3	7249.8	7272.1	7717.3	7823.1	7338.9
22.5°	5877.8	5855.5	5894.5	6075.4	6334.2	6754.4	7185.8	7269.3	7714.6	7806.4	7155.2
25°	5813.8	5886.1	5883.3	6064.2	6253.5	6629.2	7238.7	7330.5	7862.1	7892.7	7180.2
27.5°	5958.5	5950.1	6028.0	6042.0	6275.7	6662.6	7350.0	7419.6	8107.0	8081.9	7199.7
30°	6103.2	6061.4	6108.8	6273.0	6381.5	6854.6	7656.1	7650.6	8424.2	8407.5	7260.9
32.5°	6281.3	6261.8	6292.4	6437.1	6620.8	7110.6	7914.9	8079.1	8747.1	8852.8	7472.4
35°	6314.7	6395.4	6467.8	6662.6	6924.2	7525.3	8402.0	8538.3	9120.0	9451.2	7876.0
37.5°	6526.2	6556.8	6726.6	7071.7	7311.0	8079.1	8710.9	8797.2	9459.5	9835.2	8301.8
40°	6751.6	6787.8	7043.9	7405.6	7734.0	8440.9	9000.3	9028.2	9568.1	10130.2	8580.1
42.5°	7057.8	7091.2	7344.4	7798.1	8237.8	8749.8	9256.4	9287.0	9559.7	10469.8	9022.6
45°	7375.0	7455.7	7753.5	8268.4	8663.6	9111.6	9314.8	9440.0	9637.6	10773.1	9381.6
47.5°	7820.3	7895.5	8140.4	8644.1	9106.1	9428.9	9584.8	9707.2	9824.1	11037.5	9612.6
50°	8293.4	8307.3	8605.1	9061.5	9401.1	9787.9	10088.5	10130.2	10069.0	11343.6	10005.0
52.5°	8641.3	8685.8	8916.8	9362.1	9868.6	10344.5	10756.4	10800.9	10681.3	11457.7	10138.6
55°	8065.2	8040.2	8415.9	9008.7	10183.1	11173.9	11772.2	11805.6	11126.6	11811.2	10575.5
57.5°	6234.0	6353.7	6673.7	7388.9	9047.6	11541.2	12557.0	12437.4	11660.9	11989.3	10853.8
60°	4530.8	4502.9	4717.2	5195.9	6818.4	9946.6	11872.4	11994.9	11224.0	10806.5	8950.2
62.5°	3690.3	3651.3	3668.0	3684.7	4400.0	6601.3	8788.8	8786.0	8644.1	7767.4	6036.4
65°	2950.0	3041.9	3050.2	3175.4	3267.3	3943.6	5092.9	5365.7	4672.7	3832.2	2780.2
67.5°	2223.6	2190.2	2301.6	2746.9	2919.4	2847.0	2780.2	2810.9	1998.2	1441.6	1358.1
70°	1310.8	1296.9	1430.5	1914.7	2404.5	2262.6	2095.6	2098.4	1372.0	1007.5	1121.6
72.5°	718.0	715.2	743.1	971.3	1366.5	1419.3	1257.9	1296.9	818.2	815.4	876.7
75°	400.8	392.4	384.1	428.6	492.6	520.4	531.6	537.1	562.2	629.0	654.0
77.5°	147.5	141.9	141.9	164.2	208.7	261.6	331.2	336.7	398.0	456.4	481.5
80°	50.1	55.7	75.1	103.0	139.2	186.5	225.4	231.0	281.1	320.0	328.4
82.5°	30.6	33.4	50.1	72.4	100.2	130.8	167.0	169.8	208.7	233.8	244.9
85°	13.9	16.7	27.8	44.5	64.0	86.3	89.1	89.1	86.3	89.1	83.5
87.5°	0.0	0.0	5.6	5.6	5.6	8.3	11.1	8.3	13.9	16.7	16.7
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°	8415.9	8415.9	8415.9	8415.9	8415.9	8415.9	8415.9	8415.9	8415.9	8415.9	8415.9
2.5°	8340.7	8310.1	8215.5	8132.0	8107.0	7995.6	7831.4	7850.9	7731.3	7786.9	7728.5
5°	8226.6	8123.7	7881.5	7778.6	7508.6	7386.2	7302.7	7093.9	6996.5	6977.1	6893.6
7.5°	7934.4	7870.4	7567.1	7288.8	7002.1	6757.2	6442.7	6228.4	6075.4	6033.6	5911.2
10°	7703.4	7561.5	7141.3	6718.2	6309.1	5883.3	5474.2	5154.2	4998.3	4817.4	4756.2
12.5°	7475.2	7260.9	6693.2	6150.5	5621.7	5084.6	4589.2	4199.6	3860.1	3779.4	3751.5
15°	7333.3	6960.4	6292.4	5638.4	4887.0	4185.7	3690.3	3434.3	3225.5	3139.3	3200.5
17.5°	7146.8	6712.7	5908.4	5037.3	4210.7	3565.1	3150.4	2991.8	2916.6	2925.0	2899.9
20°	6913.0	6478.9	5404.6	4491.8	3606.8	3091.9	2855.4	2796.9	2808.1	2827.6	2819.2
22.5°	6746.1	6195.0	5040.1	3935.2	3117.0	2830.3	2732.9	2691.2	2727.4	2744.1	2730.2
25°	6618.0	5952.9	4597.6	3442.6	2833.1	2682.8	2638.3	2635.5	2691.2	2713.5	2699.5
27.5°	6501.2	5727.5	4157.8	3066.9	2643.9	2568.7	2554.8	2588.2	2624.4	2646.7	2666.1
30°	6431.6	5554.9	3746.0	2752.4	2549.3	2513.1	2488.0	2518.6	2538.1	2560.4	2549.3
32.5°	6498.4	5432.5	3348.0	2574.3	2471.3	2435.2	2468.5	2449.1	2482.5	2501.9	2471.3
35°	6707.1	5323.9	3064.1	2479.7	2382.3	2396.2	2401.8	2393.4	2407.3	2390.6	2426.8
37.5°	6913.0	5285.0	2802.5	2399.0	2340.5	2340.5	2335.0	2318.3	2346.1	2340.5	2357.2
40°	7174.7	5310.0	2579.9	2312.7	2301.6	2296.0	2273.7	2271.0	2259.8	2262.6	2268.2
42.5°	7402.9	5365.7	2451.8	2257.0	2265.4	2276.5	2234.8	2201.4	2215.3	2187.5	2187.5
45°	7645.0	5415.8	2337.7	2218.1	2209.7	2206.9	2173.5	2154.1	2142.9	2145.7	2170.8
47.5°	8026.3	5488.1	2251.5	2165.2	2170.8	2129.0	2120.7	2095.6	2106.8	2123.5	2126.2
50°	8296.2	5641.2	2184.7	2104.0	2123.5	2095.6	2045.5	2034.4	2034.4	2062.2	2056.7
52.5°	8485.5	5855.5	2120.7	2037.2	2045.5	2023.3	2006.6	1981.5	1964.8	2003.8	2023.3
55°	9064.3	6211.7	2104.0	1981.5	1978.7	1956.5	1925.9	1900.8	1892.5	1898.0	1937.0
57.5°	9008.7	6100.4	2051.1	1884.1	1878.5	1847.9	1817.3	1809.0	1806.2	1811.8	1822.9
60°	7313.8	4505.7	1831.2	1772.8	1764.4	1758.9	1728.3	1694.9	1678.2	1694.9	1681.0
62.5°	4839.7	3016.8	1614.2	1639.2	1644.8	1630.9	1580.8	1547.4	1552.9	1572.4	1541.8
65°	2376.7	1772.8	1463.9	1530.7	1536.2	1497.3	1450.0	1411.0	1391.5	1408.2	1394.3
67.5°	1358.1	1355.3	1341.4	1411.0	1408.2	1369.3	1294.1	1260.7	1227.3	1232.9	1224.5
70°	1152.2	1174.4	1202.3	1244.0	1241.2	1196.7	1107.6	1082.6	1035.3	1029.7	1015.8
72.5°	907.3	946.2	1007.5	1038.1	1013.0	957.4	898.9	857.2	815.4	790.4	798.7
75°	673.5	729.2	762.6	782.0	743.1	712.5	665.1	615.0	565.0	542.7	534.3
77.5°	489.8	506.5	537.1	551.0	526.0	495.4	467.5	417.5	370.1	339.5	331.2
80°	342.3	353.4	375.7	375.7	375.7	361.8	325.6	275.5	244.9	217.1	211.5
82.5°	239.3	250.5	272.7	261.6	258.8	242.1	219.9	180.9	147.5	128.0	122.5
85°	83.5	91.8	111.3	133.6	141.9	139.2	125.2	100.2	77.9	64.0	58.4
87.5°	19.5	19.5	22.3	19.5	19.5	22.3	19.5	19.5	19.5	13.9	11.1
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)