

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: P531348

Luminaire Tested: **GALN-SA6C-827-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531348
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6C-827-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27654 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

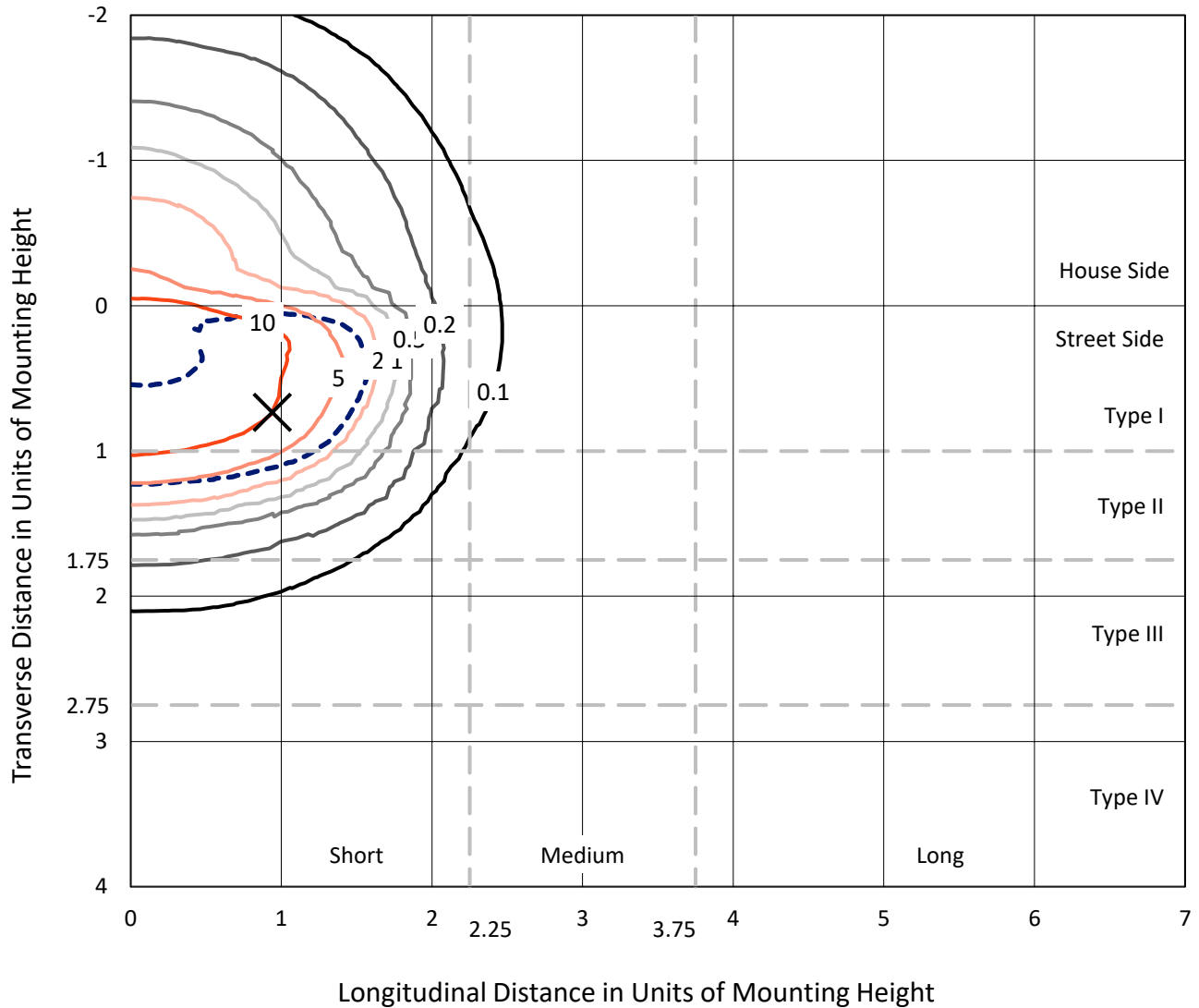
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

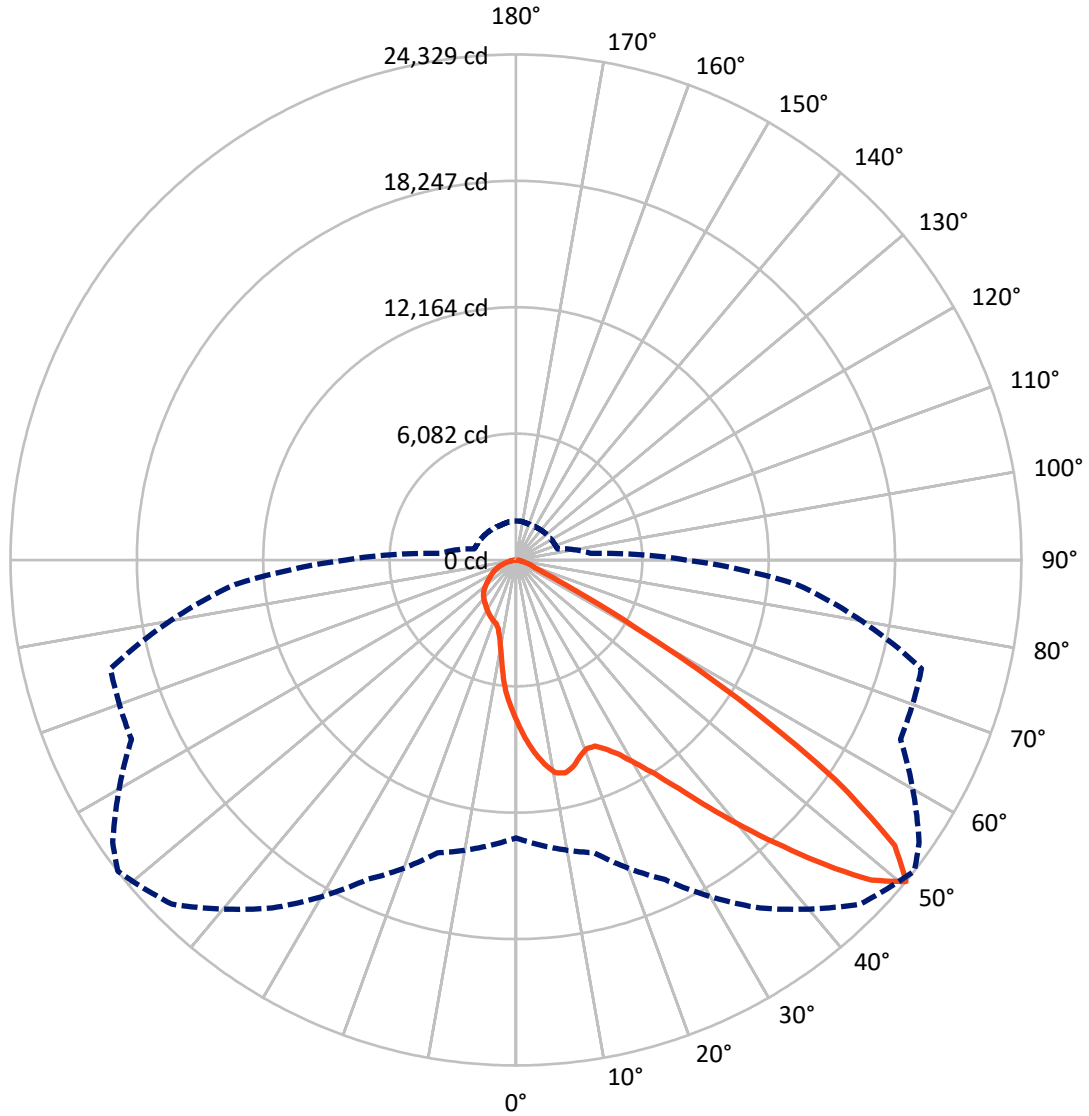
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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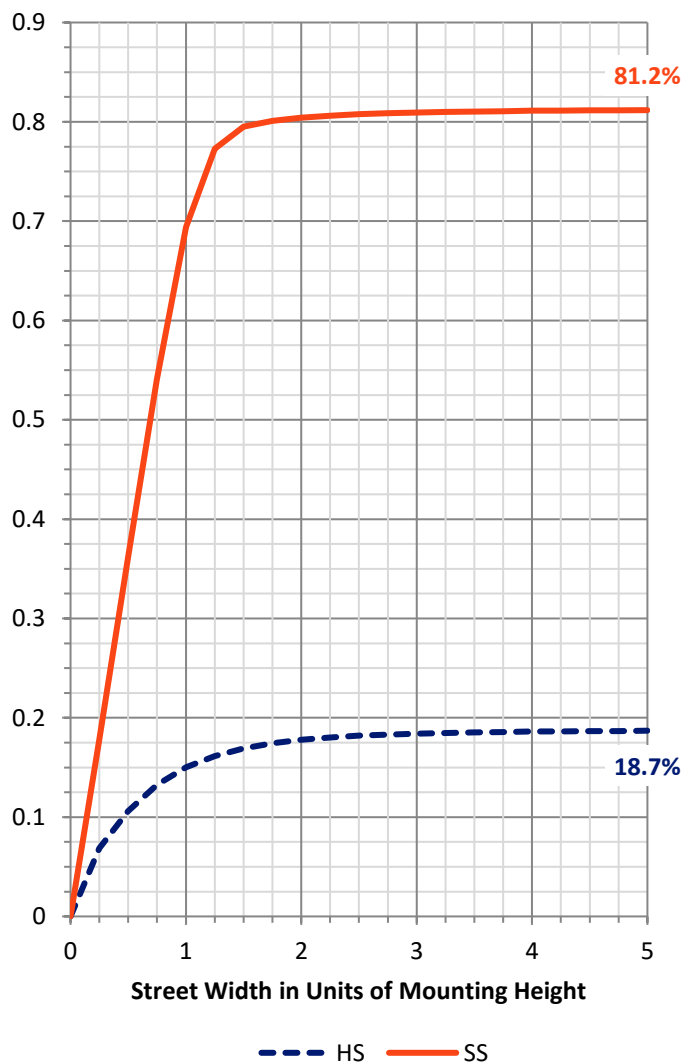
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5198.3	0.0	5198.3
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	22455.7	0.0	22455.7
	% Fixture	81.2	0.0	81.2
Total	Lumens	27654.0	0.0	27654.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	718.5	2.6
10°-20°	1925.7	7.0
20°-30°	3243.8	11.7
30°-40°	5443.3	19.7
40°-50°	8327.0	30.1
50°-60°	6071.0	22.0
60°-70°	1351.1	4.9
70°-80°	487.3	1.8
80°-90°	86.3	0.3
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°	27654.0	100.0
0°-180°	27654.0	100.0

Coefficient of Utilization



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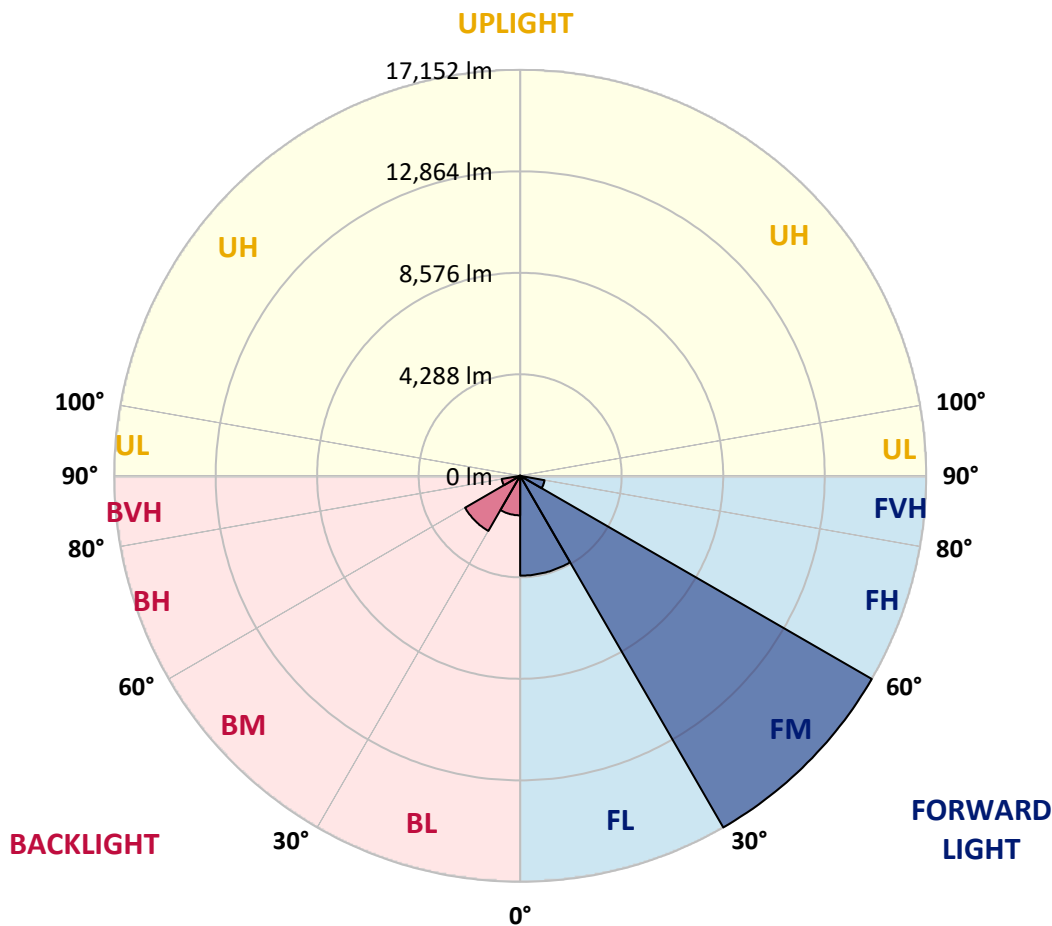
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4218.2	15.3			
FM (30°-60°)	17152.4	62.0			
FH (60°-80°)	1046.5	3.8			G1/1800
FVH (80°-90°)	38.7	0.1			G1/100
BL (0°-30°)	1669.8	6.0	B3/2500		
BM (30°-60°)	2688.9	9.7	B3/5000		
BH (60°-80°)	792.0	2.9	B2/1000		G2/1000
BVH (80°-90°)	47.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	7795.2	7795.2	7795.2	7795.2	7795.2	7795.2	7795.2	7795.2	7795.2	7795.2	7795.2
2.5°	9178.3	9001.6	9021.6	8895.0	8758.4	8718.4	8578.4	8445.1	8345.1	8131.8	7935.2
5°	10031.5	9978.1	9898.1	9798.2	9694.8	9441.6	9298.3	9131.6	8765.0	8435.1	8108.5
7.5°	10154.8	10144.8	10188.1	10188.1	10224.7	10128.1	9924.8	9808.2	9418.2	8881.7	8275.1
10°	9288.3	9318.3	9528.2	9801.5	10181.4	10444.7	10411.4	10381.4	9954.8	9221.6	8471.7
12.5°	8598.4	8531.7	8655.0	8888.3	9458.2	10094.8	10524.7	10528.0	10418.0	9764.8	8615.1
15°	8208.5	8255.1	8288.4	8398.4	8828.3	9564.9	10321.4	10544.7	11027.9	10148.1	8841.7
17.5°	8458.4	8301.8	8295.1	8321.8	8541.7	9095.0	9944.8	10328.1	11361.2	10641.3	9121.6
20°	8785.0	8781.7	8688.4	8655.0	8651.7	9145.0	9698.2	10218.1	11537.8	11281.2	9404.9
22.5°	9358.2	9358.2	9204.9	9131.6	8975.0	9378.2	9731.5	10084.8	11831.1	11721.1	9541.5
25°	10318.1	10161.4	9898.1	9718.2	9628.2	9771.5	10084.8	10401.4	12087.7	12187.7	9824.8
27.5°	11204.6	10957.9	10828.0	10518.0	10398.0	10314.7	10601.3	10921.3	12387.7	12914.2	9978.1
30°	12211.0	12167.7	11934.4	11534.5	11237.9	11084.6	11347.9	11664.5	12937.6	13657.4	10331.4
32.5°	14010.7	13617.4	13300.8	12810.9	12327.7	12001.1	12261.0	12471.0	13850.7	14434.0	10718.0
35°	15953.7	15827.0	15280.5	14397.3	13657.4	13364.2	13517.5	13674.1	14913.9	15620.4	11367.9
37.5°	17863.3	17690.0	17240.1	16496.9	15597.1	15000.5	15110.5	15293.8	16107.0	17220.1	12161.1
40°	19236.4	19023.1	18796.5	18686.5	17793.3	16976.8	16913.5	16960.2	17720.0	18719.8	13040.9
42.5°	19336.4	19599.7	19669.6	20112.9	19902.9	19233.1	18843.1	18853.1	19259.7	20202.9	13930.7
45°	19126.4	18883.1	19399.7	20609.5	21302.7	21615.9	20959.4	20876.1	20212.9	21062.7	14374.0
47.5°	16923.5	16990.1	17863.3	19776.3	21779.2	23179.0	23025.7	22749.1	20722.8	21032.7	14304.0
50°	13377.5	13780.7	14590.6	16973.5	20446.2	23425.6	24328.8	23688.9	20419.5	20206.2	13590.8
52.5°	8908.3	9075.0	9608.2	12684.3	16440.2	20939.4	22829.1	22975.7	20139.6	19123.1	12687.6
55°	3965.9	3952.6	4702.5	6625.4	10314.7	15933.7	18653.2	19546.3	19063.1	18020.0	11807.8
57.5°	1679.7	1736.3	2043.0	2862.8	5072.4	9614.9	12637.6	13420.8	14660.6	14797.2	9058.3
60°	1136.5	1143.1	1226.4	1433.1	2122.9	4515.8	6628.8	7568.6	8455.1	8395.1	4805.8
62.5°	893.2	916.5	979.8	1063.1	1259.8	2049.6	2966.1	3489.3	3546.0	2982.8	1823.0
65°	763.2	766.5	829.8	899.8	986.5	1193.1	1429.7	1456.4	1473.1	1419.7	1339.7
67.5°	629.9	636.5	686.5	766.5	846.5	913.2	979.8	1013.1	1089.8	1239.8	1219.8
70°	499.9	509.9	553.2	619.9	693.2	733.2	816.5	846.5	916.5	1033.1	1079.8
72.5°	379.9	383.3	419.9	466.6	533.2	573.2	643.2	676.5	723.2	823.2	866.5
75°	273.3	283.3	309.9	333.3	343.3	369.9	436.6	473.2	539.9	583.2	586.6
77.5°	143.3	150.0	156.6	156.6	190.0	240.0	283.3	303.3	349.9	383.3	366.6
80°	56.7	60.0	76.7	103.3	133.3	173.3	203.3	213.3	253.3	273.3	283.3
82.5°	33.3	36.7	50.0	73.3	96.6	123.3	146.6	156.6	183.3	206.6	213.3
85°	16.7	20.0	30.0	46.7	63.3	76.7	73.3	70.0	70.0	66.7	70.0
87.5°	6.7	6.7	10.0	10.0	10.0	13.3	16.7	16.7	16.7	20.0	20.0
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°	7795.2	7795.2	7795.2	7795.2	7795.2	7795.2	7795.2	7795.2	7795.2	7795.2	7795.2
2.5°	7805.2	7671.9	7548.6	7322.0	7075.3	7005.4	6718.7	6615.4	6542.1	6455.5	6428.8
5°	7845.2	7668.6	7272.0	6815.4	6452.1	5985.5	5678.9	5349.0	5109.0	5049.1	5032.4
7.5°	7928.5	7625.2	6942.0	6252.2	5509.0	4875.8	4392.5	4132.6	3902.6	3889.3	3865.9
10°	8021.8	7495.3	6582.1	5499.0	4549.1	3962.6	3672.6	3559.3	3502.7	3489.3	3482.7
12.5°	8098.5	7468.6	6178.8	4765.8	3869.3	3516.0	3429.4	3419.4	3442.7	3449.4	3462.7
15°	8131.8	7362.0	5692.3	4109.2	3446.0	3316.0	3352.7	3392.7	3409.4	3452.7	3419.4
17.5°	8195.1	7225.3	5092.4	3589.3	3209.4	3232.7	3296.0	3342.7	3369.4	3399.4	3356.0
20°	8228.5	7102.0	4529.2	3279.4	3126.1	3169.4	3256.1	3292.7	3326.0	3339.4	3289.4
22.5°	8198.5	6848.7	4032.6	3029.4	3046.1	3102.8	3179.4	3219.4	3199.4	3146.1	3116.1
25°	8118.5	6492.1	3516.0	2869.5	2932.8	3032.8	3092.8	3062.8	3026.1	2996.1	2986.1
27.5°	8115.1	6055.5	3142.7	2722.8	2836.1	2972.8	2952.8	2926.1	2942.8	2919.5	2892.8
30°	8131.8	5632.3	2836.1	2639.5	2766.1	2832.8	2856.1	2829.5	2849.5	2806.1	2819.5
32.5°	8045.2	5219.0	2636.2	2542.9	2682.8	2679.5	2756.1	2776.1	2729.5	2639.5	2652.8
35°	8081.8	4885.8	2466.2	2499.5	2589.5	2589.5	2649.5	2626.2	2502.9	2449.5	2462.9
37.5°	8335.1	4559.1	2382.9	2439.5	2499.5	2526.2	2506.2	2406.2	2376.2	2376.2	2382.9
40°	8575.1	4279.2	2332.9	2426.2	2416.2	2432.9	2286.2	2296.2	2296.2	2299.6	2282.9
42.5°	8788.4	4089.2	2292.9	2346.2	2362.9	2276.2	2186.3	2176.3	2199.6	2196.3	2182.9
45°	8865.0	3932.6	2236.2	2256.2	2269.6	2126.3	2082.9	2062.9	2089.6	2099.6	2112.9
47.5°	8571.7	3802.6	2172.9	2132.9	2106.3	2013.0	1956.3	1919.6	1953.0	2009.6	2023.0
50°	8195.1	3632.7	2072.9	1996.3	1939.6	1899.6	1859.7	1823.0	1846.3	1886.3	1876.3
52.5°	7638.6	3366.0	1946.3	1866.3	1769.7	1779.7	1743.0	1723.0	1736.3	1736.3	1726.3
55°	6845.4	2766.1	1733.0	1676.4	1596.4	1623.0	1629.7	1603.0	1576.4	1599.7	1579.7
57.5°	4672.5	1953.0	1546.4	1546.4	1466.4	1503.1	1499.7	1436.4	1373.1	1379.7	1366.4
60°	2702.8	1556.4	1426.4	1413.1	1329.8	1359.7	1366.4	1323.1	1226.4	1233.1	1219.8
62.5°	1536.4	1329.8	1246.4	1226.4	1209.8	1236.4	1236.4	1179.8	1096.5	1103.1	1089.8
65°	1306.4	1233.1	1113.1	1109.8	1103.1	1109.8	1083.1	1023.1	949.8	919.8	923.2
67.5°	1186.4	1139.8	1023.1	993.1	973.2	969.8	919.8	863.2	829.8	803.2	799.8
70°	1039.8	1003.1	916.5	876.5	856.5	809.8	759.9	723.2	676.5	663.2	676.5
72.5°	823.2	819.8	786.5	743.2	699.9	663.2	619.9	569.9	526.6	516.6	493.2
75°	569.9	576.6	583.2	576.6	539.9	493.2	443.3	403.3	349.9	319.9	313.3
77.5°	373.3	383.3	393.3	379.9	356.6	313.3	279.9	230.0	190.0	166.6	163.3
80°	273.3	286.6	293.3	283.3	256.6	223.3	186.6	146.6	116.6	96.6	96.6
82.5°	210.0	223.3	230.0	213.3	186.6	160.0	133.3	103.3	80.0	63.3	60.0
85°	73.3	70.0	83.3	86.7	103.3	96.6	80.0	60.0	46.7	33.3	30.0
87.5°	20.0	20.0	23.3	23.3	20.0	16.7	16.7	16.7	13.3	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)