

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: P533454

Luminaire Tested: **GALN-SA8D-827-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533454
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-SA8D-827-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 1200mA 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: 41437 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

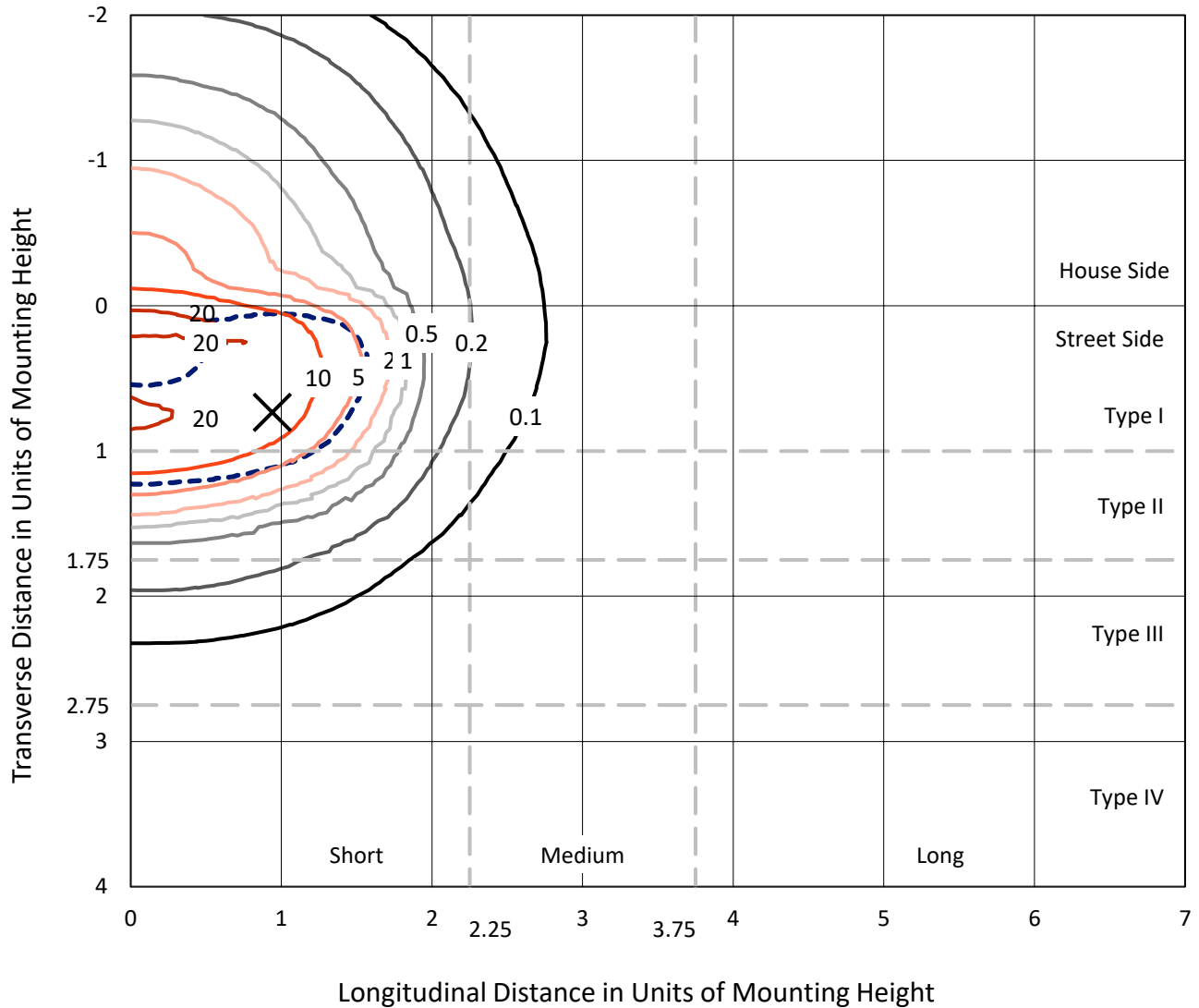
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

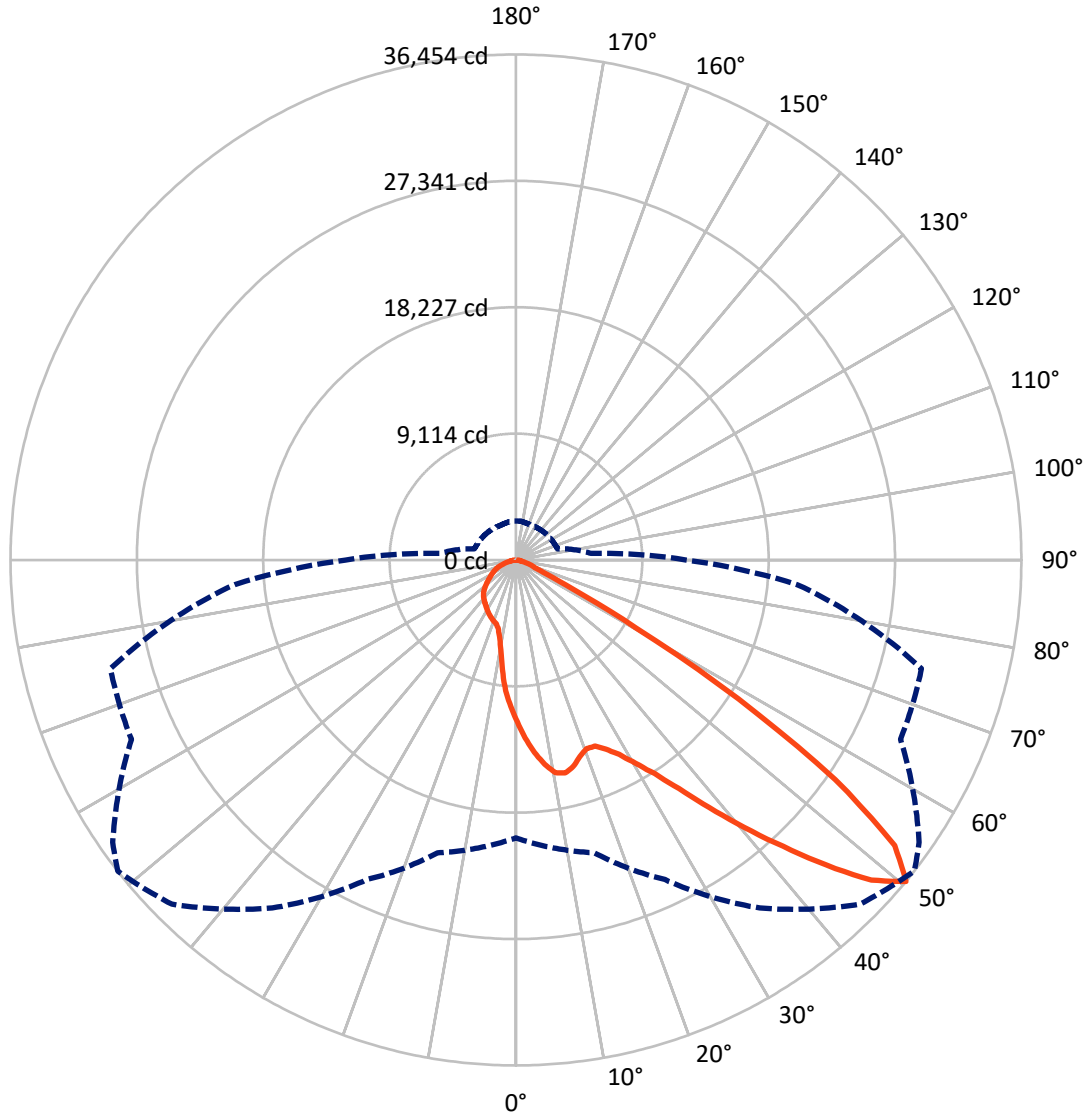
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.9 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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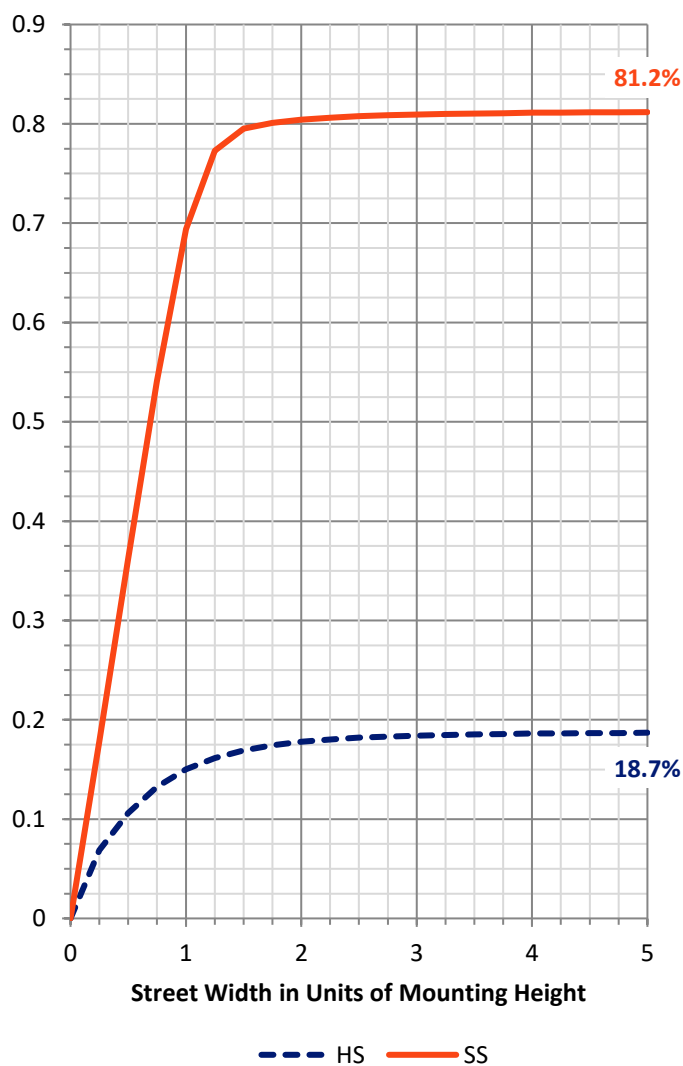
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7789.2	0.0	7789.2
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	33647.8	0.0	33647.8
	% Fixture	81.2	0.0	81.2
Total	Lumens	41437.0	0.0	41437.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1076.6	2.6
10°-20°	2885.5	7.0
20°-30°	4860.5	11.7
30°-40°	8156.3	19.7
40°-50°	12477.2	30.1
50°-60°	9096.9	22.0
60°-70°	2024.5	4.9
70°-80°	730.2	1.8
80°-90°	129.3	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°	41437.0	100.0
0°-180°	41437.0	100.0

Coefficient of Utilization



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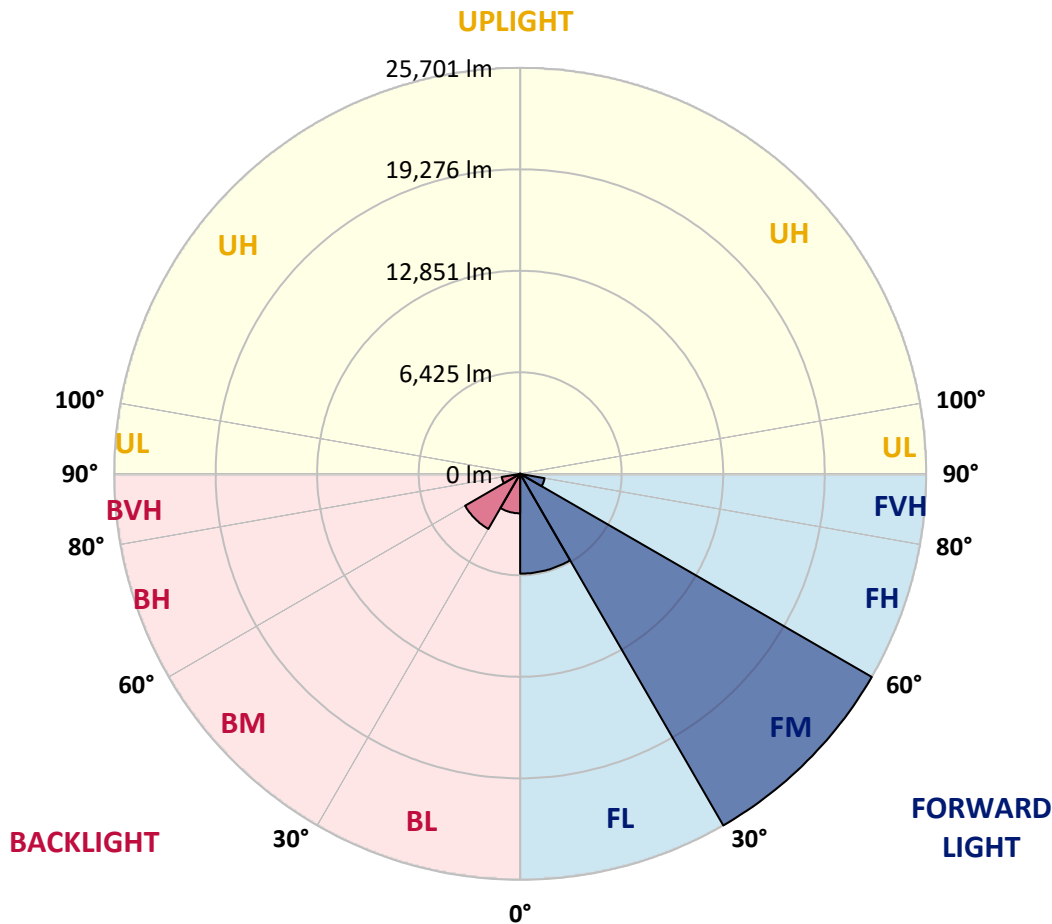
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6320.6	15.3			
FM (30°-60°)	25701.3	62.0			
FH (60°-80°)	1568.0	3.8			G1/1800
FVH (80°-90°)	57.9	0.1			G1/100
BL (0°-30°)	2502.0	6.0	B4/5000		
BM (30°-60°)	4029.1	9.7	B3/5000		
BH (60°-80°)	1186.7	2.9	B3/2500		G3/2500
BVH (80°-90°)	71.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	11680.4	11680.4	11680.4	11680.4	11680.4	11680.4	11680.4	11680.4	11680.4	11680.4	11680.4
2.5°	13752.8	13488.1	13518.1	13328.3	13123.6	13063.7	12853.9	12654.2	12504.4	12184.8	11890.1
5°	15031.2	14951.3	14831.5	14681.7	14526.8	14147.3	13932.6	13682.9	13133.6	12639.2	12149.8
7.5°	15216.0	15201.0	15265.9	15265.9	15320.9	15176.0	14871.4	14696.6	14112.4	13308.4	12399.5
10°	13917.6	13962.6	14277.2	14686.6	15255.9	15650.4	15600.5	15555.6	14916.4	13817.7	12694.1
12.5°	12883.9	12784.0	12968.8	13318.4	14172.3	15126.1	15770.3	15775.3	15610.5	14631.7	12908.9
15°	12299.6	12369.5	12419.5	12584.3	13228.5	14332.1	15465.7	15800.3	16524.4	15206.0	13248.4
17.5°	12674.2	12439.5	12429.5	12469.4	12799.0	13628.0	14901.4	15475.7	17023.7	15945.1	13667.9
20°	13163.5	13158.6	13018.7	12968.8	12963.8	13702.9	14531.8	15310.9	17288.4	16903.9	14092.4
22.5°	14022.5	14022.5	13792.8	13682.9	13448.2	14052.4	14581.8	15111.1	17727.8	17563.1	14297.1
25°	15460.7	15226.0	14831.5	14561.8	14427.0	14641.7	15111.1	15585.5	18112.4	18262.2	14721.6
27.5°	16789.0	16419.5	16224.7	15760.3	15580.5	15455.7	15885.1	16364.5	18561.8	19350.8	14951.3
30°	18297.1	18232.2	17882.7	17283.4	16839.0	16609.2	17003.8	17478.2	19385.8	20464.4	15480.7
32.5°	20993.8	20404.5	19930.1	19196.0	18471.9	17982.5	18372.0	18686.6	20754.1	21628.0	16059.9
35°	23905.1	23715.4	22896.4	21573.0	20464.4	20025.0	20254.7	20489.4	22347.1	23405.8	17033.7
37.5°	26766.6	26506.9	25832.7	24719.1	23370.8	22476.9	22641.7	22916.4	24134.8	25802.8	18222.2
40°	28824.0	28504.4	28164.8	28000.0	26661.7	25438.2	25343.3	25413.2	26551.8	28049.9	19540.6
42.5°	28973.8	29368.3	29473.2	30137.3	29822.7	28819.0	28234.7	28249.7	28858.9	30272.2	20873.9
45°	28659.2	28294.6	29068.7	30881.4	31920.1	32389.5	31405.8	31280.9	30287.2	31560.6	21538.1
47.5°	25358.3	25458.2	26766.6	29633.0	32634.2	34731.6	34501.9	34087.4	31051.2	31515.6	21433.2
50°	20045.0	20649.2	21862.7	25433.2	30636.7	35101.1	36454.4	35495.6	30596.8	30277.2	20364.6
52.5°	13348.3	13598.0	14397.0	19006.2	24634.2	31375.8	34207.3	34427.0	30177.3	28654.2	19011.2
55°	5942.6	5922.6	7046.2	9927.6	15455.7	23875.2	27950.1	29288.4	28564.3	27001.3	17692.9
57.5°	2516.9	2601.7	3061.2	4289.6	7600.5	14407.0	18936.3	20109.9	21967.5	22172.3	13573.0
60°	1702.9	1712.9	1837.7	2147.3	3181.0	6766.5	9932.6	11340.8	12669.2	12579.3	7201.0
62.5°	1338.3	1373.3	1468.2	1593.0	1887.6	3071.2	4444.4	5228.5	5313.4	4469.4	2731.6
65°	1143.6	1148.6	1243.4	1348.3	1478.2	1787.8	2142.3	2182.3	2207.2	2127.3	2007.5
67.5°	943.8	953.8	1028.7	1148.6	1268.4	1368.3	1468.2	1518.1	1633.0	1857.7	1827.7
70°	749.1	764.0	829.0	928.8	1038.7	1098.6	1223.5	1268.4	1373.3	1548.1	1618.0
72.5°	569.3	574.3	629.2	699.1	799.0	858.9	963.8	1013.7	1083.6	1233.5	1298.4
75°	409.5	424.5	464.4	499.4	514.4	554.3	654.2	709.1	809.0	873.9	878.9
77.5°	214.7	224.7	234.7	234.7	284.6	359.6	424.5	454.4	524.3	574.3	549.3
80°	84.9	89.9	114.9	154.8	199.8	259.7	304.6	319.6	379.5	409.5	424.5
82.5°	49.9	54.9	74.9	109.9	144.8	184.8	219.7	234.7	274.7	309.6	319.6
85°	25.0	30.0	44.9	69.9	94.9	114.9	109.9	104.9	104.9	99.9	104.9
87.5°	10.0	10.0	15.0	15.0	15.0	20.0	25.0	25.0	25.0	30.0	30.0
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°	11680.4	11680.4	11680.4	11680.4	11680.4	11680.4	11680.4	11680.4	11680.4	11680.4	11680.4
2.5°	11695.4	11495.6	11310.9	10971.3	10601.8	10496.9	10067.4	9912.6	9802.7	9672.9	9633.0
5°	11755.3	11490.6	10896.4	10212.2	9667.9	8968.8	8509.4	8015.0	7655.4	7565.5	7540.6
7.5°	11880.2	11425.7	10402.0	9368.3	8254.7	7305.9	6581.8	6192.3	5847.7	5827.7	5792.8
10°	12020.0	11231.0	9862.7	8239.7	6816.5	5937.6	5503.1	5333.3	5248.4	5228.5	5218.5
12.5°	12134.8	11191.0	9258.4	7141.1	5797.8	5268.4	5138.6	5123.6	5158.6	5168.5	5188.5
15°	12184.8	11031.2	8529.3	6157.3	5163.5	4968.8	5023.7	5083.6	5108.6	5173.5	5123.6
17.5°	12279.7	10826.5	7630.5	5378.3	4809.0	4843.9	4938.8	5008.7	5048.7	5093.6	5028.7
20°	12329.6	10641.7	6786.5	4913.9	4684.1	4749.1	4878.9	4933.8	4983.8	5003.7	4928.8
22.5°	12284.6	10262.2	6042.4	4539.3	4564.3	4649.2	4764.0	4824.0	4794.0	4714.1	4669.2
25°	12164.8	9727.8	5268.4	4299.6	4394.5	4544.3	4634.2	4589.3	4534.3	4489.4	4474.4
27.5°	12159.8	9073.7	4709.1	4079.9	4249.7	4454.4	4424.5	4384.5	4409.5	4374.5	4334.6
30°	12184.8	8439.5	4249.7	3955.1	4144.8	4244.7	4279.7	4239.7	4269.7	4204.7	4224.7
32.5°	12054.9	7820.2	3950.1	3810.2	4020.0	4015.0	4129.8	4159.8	4089.9	3955.1	3975.0
35°	12109.9	7320.9	3695.4	3745.3	3880.2	3880.2	3970.0	3935.1	3750.3	3670.4	3690.4
37.5°	12489.4	6831.5	3570.5	3655.4	3745.3	3785.3	3755.3	3605.5	3560.6	3560.6	3570.5
40°	12848.9	6412.0	3495.6	3635.5	3620.5	3645.4	3425.7	3440.7	3440.7	3445.7	3420.7
42.5°	13168.5	6127.3	3435.7	3515.6	3540.6	3410.7	3275.9	3260.9	3295.9	3290.9	3270.9
45°	13283.4	5892.6	3350.8	3380.8	3400.8	3186.0	3121.1	3091.1	3131.1	3146.1	3166.0
47.5°	12843.9	5697.9	3255.9	3196.0	3156.1	3016.2	2931.3	2876.4	2926.3	3011.2	3031.2
50°	12279.7	5443.2	3106.1	2991.3	2906.4	2846.4	2786.5	2731.6	2766.5	2826.5	2811.5
52.5°	11445.7	5043.7	2916.4	2796.5	2651.7	2666.7	2611.7	2581.8	2601.7	2601.7	2586.8
55°	10257.2	4144.8	2596.8	2511.9	2392.0	2432.0	2441.9	2402.0	2362.0	2397.0	2367.0
57.5°	7001.3	2926.3	2317.1	2317.1	2197.3	2252.2	2247.2	2152.3	2057.4	2067.4	2047.4
60°	4049.9	2332.1	2137.3	2117.4	1992.5	2037.5	2047.4	1982.5	1837.7	1847.7	1827.7
62.5°	2302.1	1992.5	1867.7	1837.7	1812.7	1852.7	1852.7	1767.8	1642.9	1652.9	1633.0
65°	1957.6	1847.7	1667.9	1662.9	1652.9	1662.9	1623.0	1533.1	1423.2	1378.3	1383.3
67.5°	1777.8	1707.9	1533.1	1488.1	1458.2	1453.2	1378.3	1293.4	1243.4	1203.5	1198.5
70°	1558.1	1503.1	1373.3	1313.4	1283.4	1213.5	1138.6	1083.6	1013.7	993.8	1013.7
72.5°	1233.5	1228.5	1178.5	1113.6	1048.7	993.8	928.8	853.9	789.0	774.0	739.1
75°	853.9	863.9	873.9	863.9	809.0	739.1	664.2	604.2	524.3	479.4	469.4
77.5°	559.3	574.3	589.3	569.3	534.3	469.4	419.5	344.6	284.6	249.7	244.7
80°	409.5	429.5	439.5	424.5	384.5	334.6	279.7	219.7	174.8	144.8	144.8
82.5°	314.6	334.6	344.6	319.6	279.7	239.7	199.8	154.8	119.9	94.9	89.9
85°	109.9	104.9	124.8	129.8	154.8	144.8	119.9	89.9	69.9	49.9	44.9
87.5°	30.0	30.0	35.0	35.0	30.0	25.0	25.0	25.0	20.0	15.0	15.0
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)