

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: P532940

Luminaire Tested: **GALN-SA8B-750-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532940
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-SA8B-750-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 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: 38872 lumens
Efficiency: N/A
Efficacy: 119.6 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

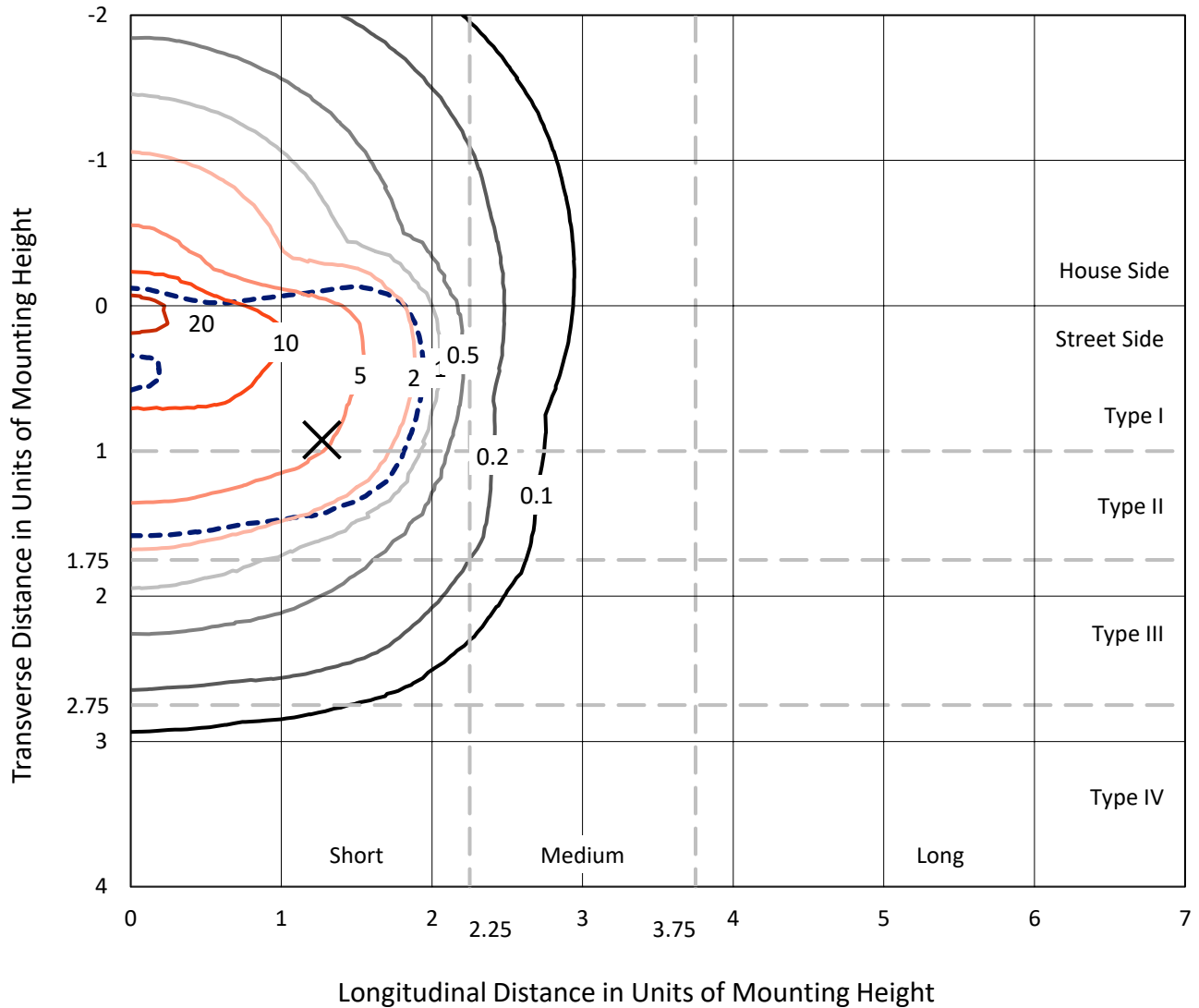
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

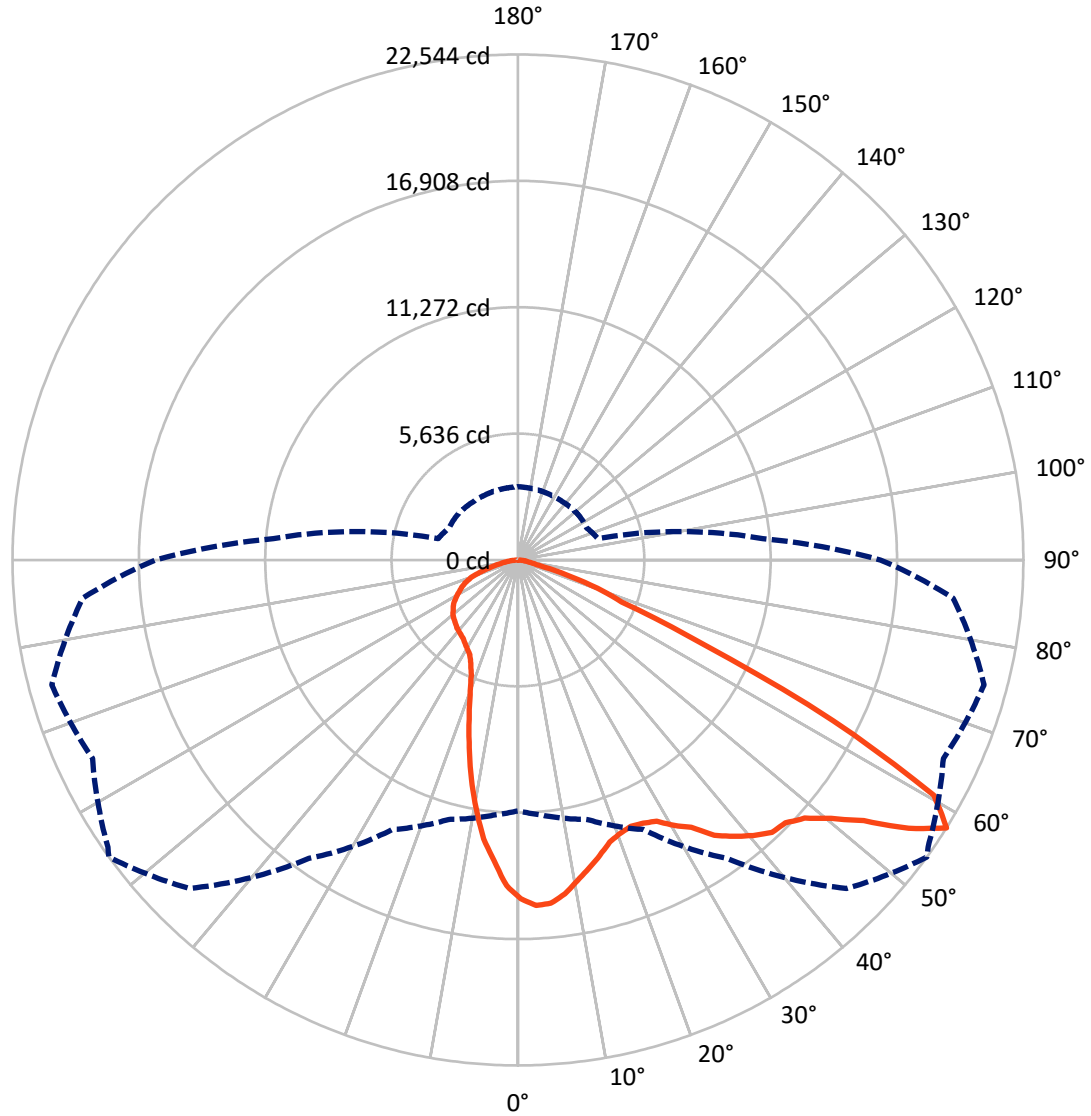
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.2 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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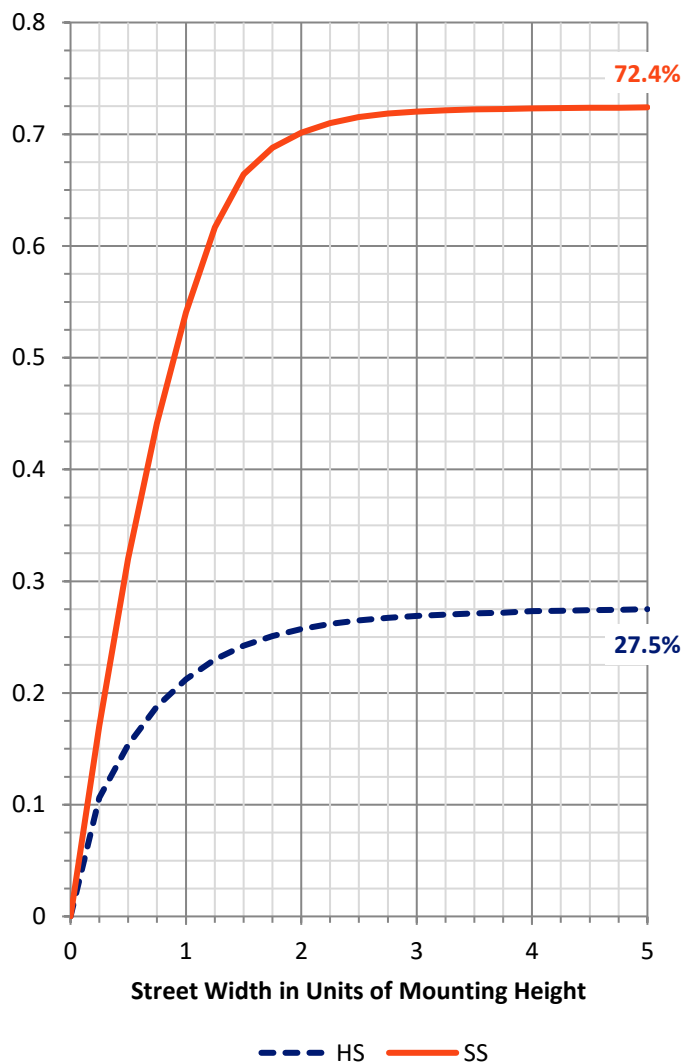
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10754.2	0.0	10754.2
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	28117.8	0.0	28117.8
	% Fixture	72.3	0.0	72.3
Total	Lumens	38872.0	0.0	38872.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1303.0	3.4
10°-20°	3016.9	7.8
20°-30°	4238.9	10.9
30°-40°	5926.0	15.2
40°-50°	8022.6	20.6
50°-60°	9771.9	25.1
60°-70°	5089.6	13.1
70°-80°	1304.2	3.4
80°-90°	198.9	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°	38872.0	100.0
0°-180°	38872.0	100.0

Coefficient of Utilization



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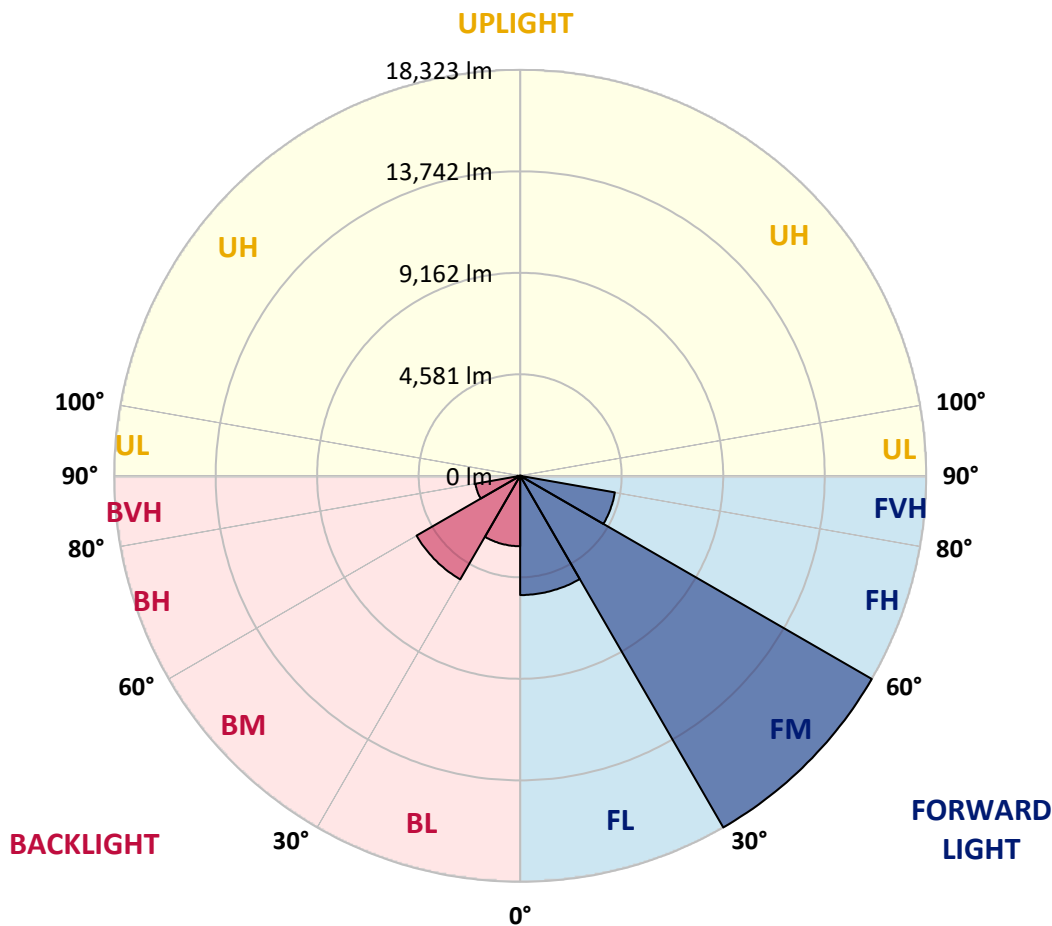
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5380.4	13.8			
FM (30°-60°)	18323.1	47.1			
FH (60°-80°)	4339.2	11.2			G2/5000
FVH (80°-90°)	75.2	0.2			G1/100
BL (0°-30°)	3178.4	8.2	B4/5000		
BM (30°-60°)	5397.4	13.9	B4/8500		
BH (60°-80°)	2054.6	5.3	B3/2500		G3/2500
BVH (80°-90°)	123.8	0.3			G2/225
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°	54°	55°	65°	75°	85°
0°	15109.1	15109.1	15109.1	15109.1	15109.1	15109.1	15109.1	15109.1	15109.1	15109.1	15109.1
2.5°	15538.8	15478.8	15488.8	15568.8	15468.8	15428.9	15428.9	15234.0	15249.0	15114.1	15079.1
5°	15179.1	15039.2	15134.1	15254.0	15274.0	15314.0	15378.9	15328.9	15189.0	15044.1	14809.3
7.5°	14239.7	14364.6	14399.6	14484.6	14664.4	14829.3	15034.2	14894.3	14889.3	14744.4	14604.5
10°	13415.3	13340.4	13530.2	13655.1	13954.9	14229.7	14544.5	14529.5	14604.5	14439.6	14199.8
12.5°	12595.9	12536.0	12625.9	12910.7	13330.4	13730.1	14104.8	13964.9	14364.6	14334.7	13820.0
15°	11726.5	11771.5	11901.4	12166.2	12715.8	13195.5	13670.1	13675.1	14029.9	14149.8	13460.3
17.5°	11117.0	11067.0	11231.9	11626.6	12116.3	12690.8	13230.5	13340.4	13885.0	13954.9	13350.4
20°	10662.3	10732.3	10947.1	11147.0	11711.6	12406.1	13015.6	13055.6	13855.0	14044.9	13175.5
22.5°	10552.4	10512.4	10582.4	10907.1	11371.8	12126.3	12900.7	13050.6	13850.0	14014.9	12845.7
25°	10437.5	10567.4	10562.4	10887.1	11226.9	11901.4	12995.6	13160.5	14114.8	14169.8	12890.7
27.5°	10697.3	10682.3	10822.2	10847.2	11266.9	11961.4	13195.5	13320.4	14554.5	14509.5	12925.7
30°	10957.1	10882.2	10967.1	11261.9	11456.7	12306.1	13745.1	13735.1	15124.1	15094.1	13035.6
32.5°	11276.9	11241.9	11296.9	11556.7	11886.4	12765.8	14209.7	14504.5	15703.7	15893.5	13415.3
35°	11336.8	11481.7	11611.6	11961.4	12431.0	13510.3	15084.1	15328.9	16373.2	16967.8	14139.8
37.5°	11716.5	11771.5	12076.3	12695.8	13125.5	14504.5	15638.7	15793.6	16982.7	17657.3	14904.2
40°	12121.3	12186.2	12645.9	13295.4	13885.0	15154.1	16158.3	16208.3	17177.6	18186.9	15403.9
42.5°	12670.9	12730.8	13185.5	13999.9	14789.3	15708.7	16618.0	16673.0	17162.6	18796.4	16198.3
45°	13240.4	13385.3	13920.0	14844.3	15553.8	16358.2	16722.9	16947.8	17302.5	19341.0	16842.9
47.5°	14039.9	14174.8	14614.5	15518.8	16348.2	16927.8	17207.6	17427.4	17637.3	19815.7	17257.6
50°	14889.3	14914.2	15448.9	16268.3	16877.8	17572.3	18111.9	18186.9	18077.0	20365.3	17962.0
52.5°	15513.8	15593.8	16008.5	16807.9	17717.2	18571.6	19311.1	19391.0	19176.2	20570.2	18201.9
55°	14479.6	14434.6	15109.1	16173.3	18281.8	20060.5	21134.8	21194.7	19975.6	21204.7	18986.3
57.5°	11191.9	11406.8	11981.4	13265.4	16243.3	20720.1	22543.7	22328.9	20934.9	21524.5	19485.9
60°	8134.1	8084.2	8468.9	9328.3	12241.2	17857.1	21314.6	21534.5	20150.5	19401.0	16068.4
62.5°	6625.2	6555.3	6585.2	6615.2	7899.3	11851.5	15778.6	15773.6	15518.8	13944.9	10837.2
65°	5296.2	5461.1	5476.0	5700.9	5865.8	7079.9	9143.4	9633.1	8388.9	6880.0	4991.4
67.5°	3992.1	3932.2	4132.0	4931.4	5241.2	5111.3	4991.4	5046.4	3587.4	2588.1	2438.2
70°	2353.3	2328.3	2568.1	3437.5	4316.9	4062.1	3762.3	3767.3	2463.2	1808.7	2013.5
72.5°	1289.1	1284.1	1334.0	1743.7	2453.2	2548.2	2258.4	2328.3	1468.9	1463.9	1573.9
75°	719.5	704.5	689.5	769.4	884.4	934.3	954.3	964.3	1009.3	1129.2	1174.2
77.5°	264.8	254.8	254.8	294.8	374.7	469.7	594.6	604.6	714.5	819.4	864.4
80°	89.9	99.9	134.9	184.9	249.8	334.8	404.7	414.7	504.6	574.6	589.6
82.5°	55.0	60.0	89.9	129.9	179.9	234.8	299.8	304.8	374.7	419.7	439.7
85°	25.0	30.0	50.0	79.9	114.9	154.9	159.9	159.9	154.9	159.9	149.9
87.5°	0.0	0.0	10.0	10.0	10.0	15.0	20.0	15.0	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°	15109.1	15109.1	15109.1	15109.1	15109.1	15109.1	15109.1	15109.1	15109.1	15109.1	15109.1
2.5°	14974.2	14919.2	14749.4	14599.5	14554.5	14354.6	14059.9	14094.8	13880.0	13979.9	13875.0
5°	14769.3	14584.5	14149.8	13964.9	13480.3	13260.4	13110.5	12735.8	12560.9	12526.0	12376.1
7.5°	14244.7	14129.8	13585.2	13085.6	12570.9	12131.2	11566.7	11181.9	10907.1	10832.2	10612.3
10°	13830.0	13575.2	12820.8	12061.3	11326.8	10562.4	9827.9	9253.3	8973.5	8648.8	8538.8
12.5°	13420.3	13035.6	12016.3	11042.0	10092.7	9128.4	8239.1	7539.6	6930.0	6785.1	6735.1
15°	13165.5	12496.0	11296.9	10122.7	8773.7	7514.6	6625.2	6165.6	5790.8	5635.9	5745.9
17.5°	12830.7	12051.3	10607.3	9043.5	7559.5	6400.4	5655.9	5371.1	5236.2	5251.2	5206.2
20°	12411.0	11631.6	9703.0	8064.2	6475.3	5551.0	5126.3	5021.4	5041.4	5076.3	5061.3
22.5°	12111.3	11122.0	9048.5	7064.9	5596.0	5081.3	4906.5	4831.5	4896.5	4926.4	4901.5
25°	11881.4	10687.3	8254.0	6180.5	5086.3	4816.5	4736.6	4731.6	4831.5	4871.5	4846.5
27.5°	11671.6	10282.6	7464.6	5506.0	4746.6	4611.7	4586.7	4646.6	4711.6	4751.6	4786.5
30°	11546.7	9972.8	6725.1	4941.4	4576.7	4511.7	4466.8	4521.7	4556.7	4596.7	4576.7
32.5°	11666.6	9753.0	6010.7	4621.7	4436.8	4371.8	4431.8	4396.8	4456.8	4491.8	4436.8
35°	12041.3	9558.1	5501.0	4451.8	4276.9	4301.9	4311.9	4296.9	4321.9	4291.9	4356.9
37.5°	12411.0	9488.2	5031.4	4306.9	4202.0	4202.0	4192.0	4162.0	4212.0	4202.0	4231.9
40°	12880.7	9533.1	4631.7	4152.0	4132.0	4122.0	4082.1	4077.1	4057.1	4062.1	4072.1
42.5°	13290.4	9633.1	4401.8	4052.1	4067.1	4087.1	4012.1	3952.1	3977.1	3927.2	3927.2
45°	13725.1	9723.0	4197.0	3982.1	3967.1	3962.1	3902.2	3867.2	3847.2	3852.2	3897.2
47.5°	14409.6	9852.9	4042.1	3887.2	3897.2	3822.2	3807.3	3762.3	3782.3	3812.3	3817.2
50°	14894.3	10127.7	3922.2	3777.3	3812.3	3762.3	3672.4	3652.4	3652.4	3702.3	3692.3
52.5°	15234.0	10512.4	3807.3	3657.4	3672.4	3632.4	3602.4	3557.4	3527.5	3597.4	3632.4
55°	16273.3	11152.0	3777.3	3557.4	3552.4	3512.5	3457.5	3412.5	3397.5	3407.5	3477.5
57.5°	16173.3	10952.1	3682.3	3382.6	3372.6	3317.6	3262.6	3247.7	3242.7	3252.7	3272.6
60°	13130.5	8089.2	3287.6	3182.7	3167.7	3157.7	3102.8	3042.8	3012.8	3042.8	3017.8
62.5°	8688.7	5416.1	2897.9	2942.9	2952.9	2927.9	2838.0	2778.0	2788.0	2823.0	2768.0
65°	4266.9	3182.7	2628.1	2748.0	2758.0	2688.1	2603.1	2533.2	2498.2	2528.2	2503.2
67.5°	2438.2	2433.2	2408.3	2533.2	2528.2	2458.2	2323.3	2263.4	2203.4	2213.4	2198.4
70°	2068.5	2108.5	2158.4	2233.4	2228.4	2148.5	1988.6	1943.6	1858.7	1848.7	1823.7
72.5°	1628.8	1698.8	1808.7	1863.7	1818.7	1718.8	1613.8	1538.9	1463.9	1419.0	1434.0
75°	1209.1	1309.1	1369.0	1404.0	1334.0	1279.1	1194.1	1104.2	1014.3	974.3	959.3
77.5°	879.4	909.3	964.3	989.3	944.3	889.4	839.4	749.5	664.5	609.6	594.6
80°	614.6	634.5	674.5	674.5	674.5	649.5	584.6	494.6	439.7	389.7	379.7
82.5°	429.7	449.7	489.6	469.7	464.7	434.7	394.7	324.8	264.8	229.8	219.8
85°	149.9	164.9	199.9	239.8	254.8	249.8	224.8	179.9	139.9	114.9	104.9
87.5°	35.0	35.0	40.0	35.0	35.0	40.0	35.0	35.0	35.0	25.0	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

(END OF REPORT)