

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: P533460

Luminaire Tested: **GALN-SA8D-827-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533460
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-SA8D-827-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 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: 38849 lumens
Efficiency: N/A
Efficacy: 78.8 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

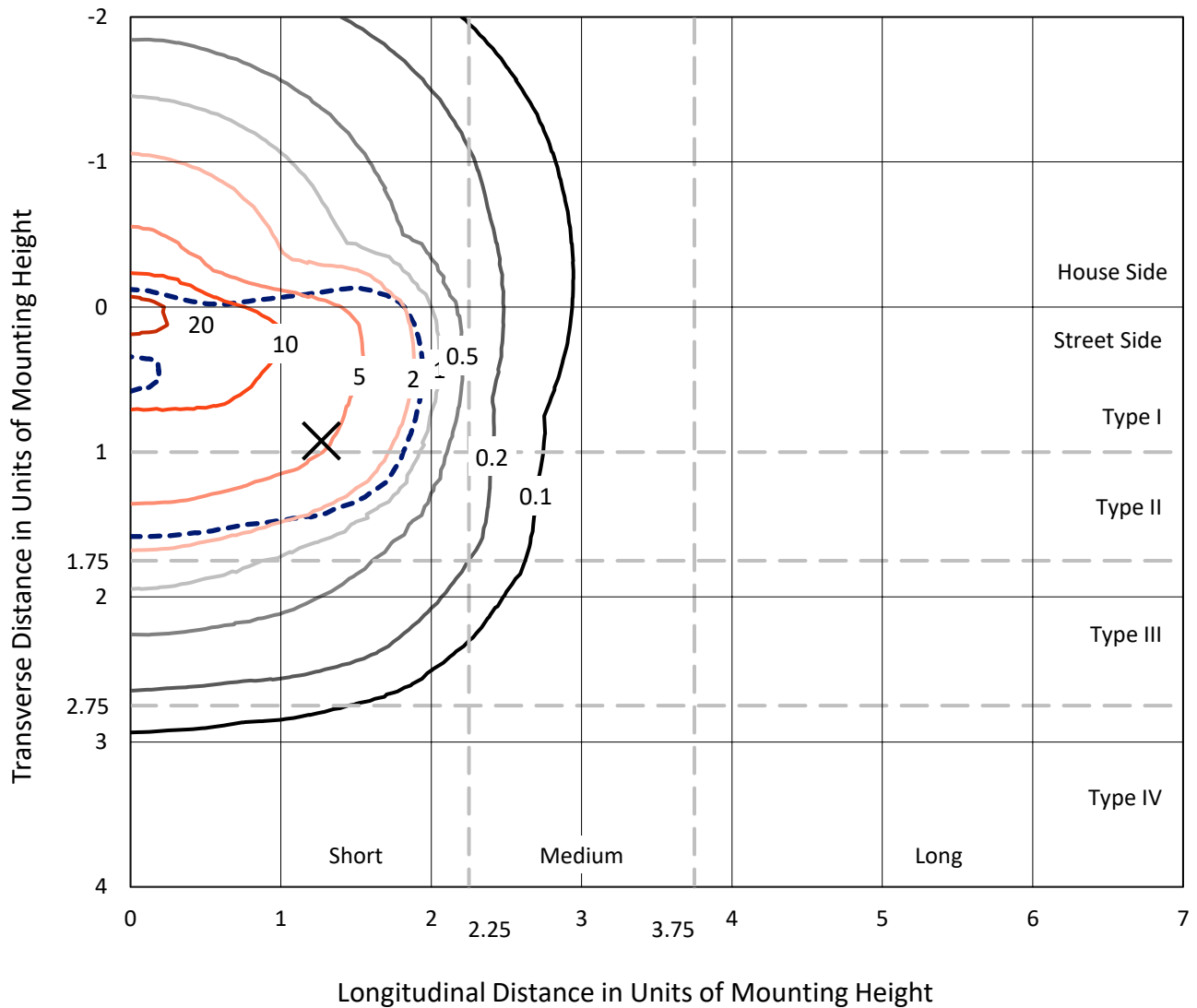
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

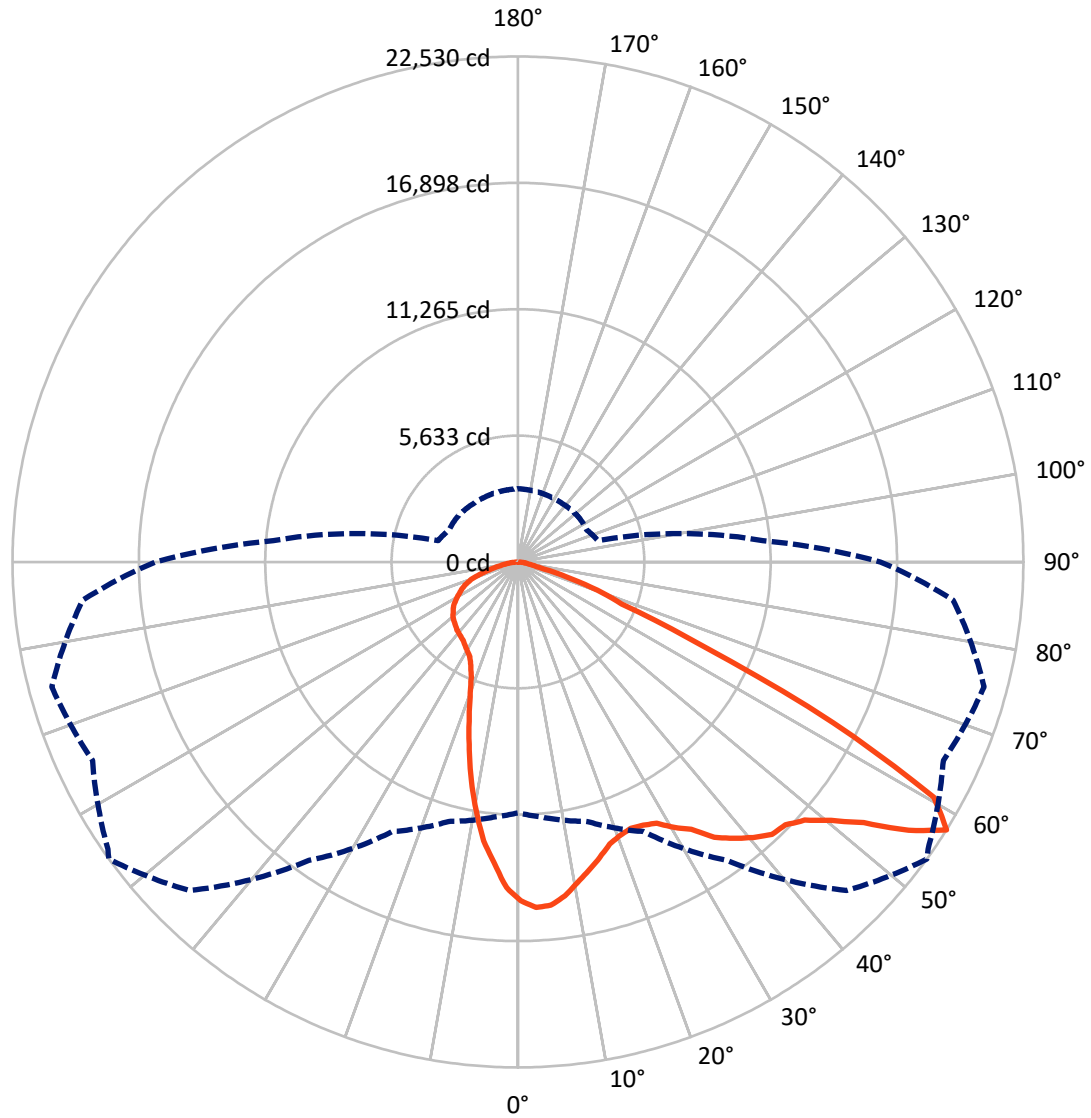
✕ Max cd
 - - - 1/2 Max cd



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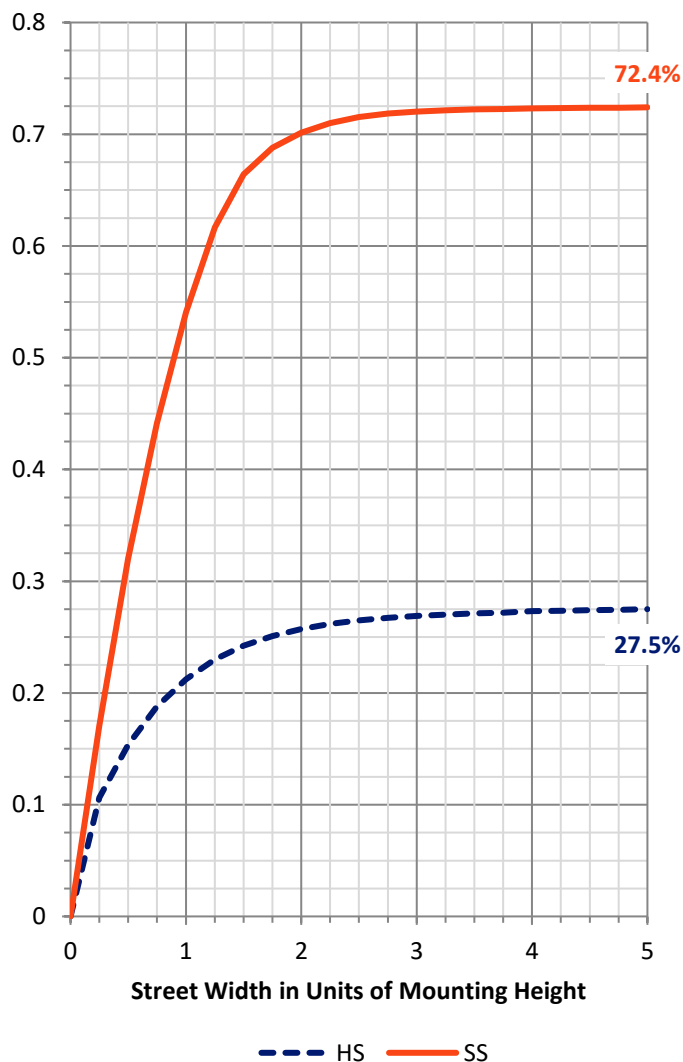
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10747.8	0.0	10747.8
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	28101.2	0.0	28101.2
	% Fixture	72.3	0.0	72.3
Total	Lumens	38849.0	0.0	38849.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1302.2	3.4
10°-20°	3015.2	7.8
20°-30°	4236.3	10.9
30°-40°	5922.5	15.2
40°-50°	8017.9	20.6
50°-60°	9766.1	25.1
60°-70°	5086.6	13.1
70°-80°	1303.4	3.4
80°-90°	198.8	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°	38849.0	100.0
0°-180°	38849.0	100.0

Coefficient of Utilization



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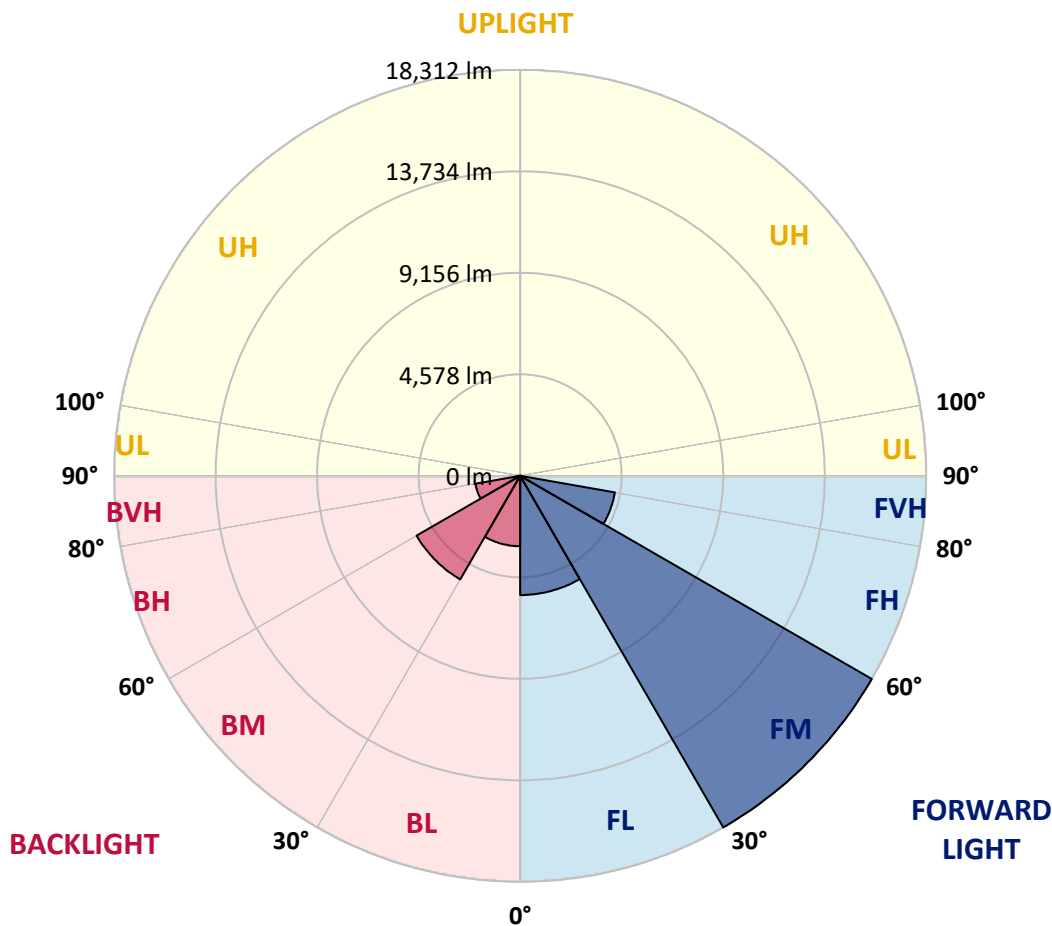
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5377.2	13.8			
FM (30°-60°)	18312.2	47.1			
FH (60°-80°)	4336.6	11.2			G2/5000
FVH (80°-90°)	75.1	0.2			G1/100
BL (0°-30°)	3176.5	8.2	B4/5000		
BM (30°-60°)	5394.2	13.9	B4/8500		
BH (60°-80°)	2053.4	5.3	B3/2500		G3/2500
BVH (80°-90°)	123.7	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°	15100.2	15100.2	15100.2	15100.2	15100.2	15100.2	15100.2	15100.2	15100.2	15100.2	15100.2
2.5°	15529.6	15469.7	15479.7	15559.6	15459.7	15419.7	15419.7	15225.0	15240.0	15105.2	15070.2
5°	15170.1	15030.3	15125.1	15245.0	15264.9	15304.9	15369.8	15319.9	15180.1	15035.2	14800.6
7.5°	14231.3	14356.1	14391.1	14476.0	14655.7	14820.5	15025.3	14885.4	14880.4	14735.6	14595.8
10°	13407.4	13332.5	13522.2	13647.1	13946.7	14221.3	14535.9	14520.9	14595.8	14431.0	14191.4
12.5°	12588.5	12528.5	12618.4	12903.0	13322.5	13722.0	14096.5	13956.7	14356.1	14326.2	13811.9
15°	11719.6	11764.5	11894.4	12159.0	12708.3	13187.7	13662.1	13667.0	14021.6	14141.4	13452.3
17.5°	11110.4	11060.5	11225.3	11619.7	12109.1	12683.3	13222.6	13332.5	13876.8	13946.7	13342.5
20°	10656.0	10725.9	10940.6	11140.4	11704.6	12398.7	13007.9	13047.9	13846.8	14036.6	13167.7
22.5°	10546.1	10506.2	10576.1	10900.7	11365.1	12119.1	12893.1	13042.9	13841.8	14006.6	12838.1
25°	10431.3	10561.1	10556.1	10880.7	11220.3	11894.4	12987.9	13152.7	14106.5	14161.4	12883.1
27.5°	10691.0	10676.0	10815.8	10840.8	11260.2	11954.3	13187.7	13312.5	14545.9	14500.9	12918.0
30°	10950.6	10875.7	10960.6	11255.2	11450.0	12298.8	13737.0	13727.0	15115.1	15085.2	13027.9
32.5°	11270.2	11235.2	11290.2	11549.8	11879.4	12758.2	14201.3	14496.0	15694.4	15884.1	13407.4
35°	11330.1	11474.9	11604.8	11954.3	12423.7	13502.3	15075.2	15319.9	16363.5	16957.7	14131.4
37.5°	11709.6	11764.5	12069.1	12688.3	13117.8	14496.0	15629.5	15784.3	16972.7	17646.8	14895.4
40°	12114.1	12179.0	12638.4	13287.5	13876.8	15145.1	16148.8	16198.7	17167.4	18176.1	15394.8
42.5°	12663.4	12723.3	13177.7	13991.6	14780.6	15699.4	16608.2	16663.1	17152.5	18785.3	16188.7
45°	13232.6	13377.4	13911.7	14835.5	15544.6	16348.5	16713.0	16937.7	17292.3	19329.6	16832.9
47.5°	14031.6	14166.4	14605.8	15509.6	16338.5	16917.8	17197.4	17417.1	17626.8	19804.0	17247.3
50°	14880.4	14905.4	15439.7	16258.6	16867.8	17561.9	18101.2	18176.1	18066.3	20353.3	17951.4
52.5°	15504.6	15584.5	15999.0	16797.9	17706.7	18560.6	19299.6	19379.5	19164.8	20558.0	18191.1
55°	14471.0	14426.0	15100.2	16163.8	18271.0	20048.7	21122.2	21182.2	19963.8	21192.2	18975.1
57.5°	11185.3	11400.0	11974.3	13257.6	16233.7	20707.8	22530.4	22315.7	20922.5	21511.7	19474.4
60°	8129.3	8079.4	8463.9	9322.8	12233.9	17846.6	21302.0	21521.7	20138.5	19389.5	16058.9
62.5°	6621.3	6551.4	6581.4	6611.3	7894.6	11844.4	15769.3	15764.3	15509.6	13936.7	10830.8
65°	5293.0	5457.8	5472.8	5697.5	5862.3	7075.7	9138.0	9627.4	8384.0	6876.0	4988.4
67.5°	3989.8	3929.8	4129.6	4928.5	5238.1	5108.3	4988.4	5043.4	3585.3	2586.6	2436.8
70°	2351.9	2326.9	2566.6	3435.5	4314.3	4059.7	3760.1	3765.1	2461.8	1807.6	2012.4
72.5°	1288.3	1283.3	1333.2	1742.7	2451.8	2546.7	2257.0	2326.9	1468.1	1463.1	1572.9
75°	719.1	704.1	689.1	769.0	883.8	933.8	953.7	963.7	1008.7	1128.5	1173.5
77.5°	264.7	254.7	254.7	294.6	374.5	469.4	594.2	604.2	714.1	818.9	863.9
80°	89.9	99.9	134.8	184.8	249.7	334.6	404.5	414.5	504.3	574.2	589.2
82.5°	54.9	59.9	89.9	129.8	179.8	234.7	299.6	304.6	374.5	419.4	439.4
85°	25.0	30.0	49.9	79.9	114.8	154.8	159.8	159.8	154.8	159.8	149.8
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°	15100.2	15100.2	15100.2	15100.2	15100.2	15100.2	15100.2	15100.2	15100.2	15100.2	15100.2
2.5°	14965.3	14910.4	14740.6	14590.8	14545.9	14346.2	14051.5	14086.5	13871.8	13971.6	13866.8
5°	14760.6	14575.9	14141.4	13956.7	13472.3	13252.6	13102.8	12728.3	12553.5	12518.6	12368.7
7.5°	14236.3	14121.4	13577.2	13077.8	12563.5	12124.1	11559.8	11175.3	10900.7	10825.8	10606.1
10°	13821.8	13567.2	12813.2	12054.2	11320.1	10556.1	9822.1	9247.9	8968.2	8643.6	8533.8
12.5°	13412.4	13027.9	12009.2	11035.5	10086.7	9123.0	8234.2	7535.1	6925.9	6781.1	6731.2
15°	13157.7	12488.6	11290.2	10116.7	8768.5	7510.1	6621.3	6161.9	5787.4	5632.6	5742.5
17.5°	12823.2	12044.2	10601.1	9038.1	7555.1	6396.6	5652.6	5367.9	5233.1	5248.1	5203.2
20°	12403.7	11624.7	9697.3	8059.4	6471.5	5547.7	5123.3	5018.4	5038.4	5073.3	5058.4
22.5°	12104.1	11115.4	9043.1	7060.7	5592.7	5078.3	4903.6	4828.7	4893.6	4923.5	4898.6
25°	11874.4	10681.0	8249.2	6176.9	5083.3	4813.7	4733.8	4728.8	4828.7	4868.6	4843.6
27.5°	11664.7	10276.5	7460.2	5502.8	4743.8	4608.9	4584.0	4643.9	4708.8	4748.8	4783.7
30°	11539.8	9966.9	6721.2	4938.5	4574.0	4509.1	4464.1	4519.1	4554.0	4594.0	4574.0
32.5°	11659.7	9747.2	6007.1	4618.9	4434.2	4369.3	4429.2	4394.2	4454.1	4489.1	4434.2
35°	12034.2	9552.4	5497.8	4449.2	4274.4	4299.4	4309.3	4294.4	4319.3	4289.4	4354.3
37.5°	12403.7	9482.5	5028.4	4304.3	4199.5	4199.5	4189.5	4159.5	4209.5	4199.5	4229.4
40°	12873.1	9527.5	4628.9	4149.5	4129.6	4119.6	4079.6	4074.6	4054.7	4059.7	4069.7
42.5°	13282.5	9627.4	4399.2	4049.7	4064.7	4084.6	4009.7	3949.8	3974.8	3924.8	3924.8
45°	13717.0	9717.2	4194.5	3979.8	3964.8	3959.8	3899.9	3864.9	3844.9	3849.9	3894.9
47.5°	14401.1	9847.1	4039.7	3884.9	3894.9	3820.0	3805.0	3760.1	3780.0	3810.0	3815.0
50°	14885.4	10121.7	3919.9	3775.0	3810.0	3760.1	3670.2	3650.2	3650.2	3700.1	3690.2
52.5°	15225.0	10506.2	3805.0	3655.2	3670.2	3630.2	3600.3	3555.3	3525.4	3595.3	3630.2
55°	16263.6	11145.4	3775.0	3555.3	3550.3	3510.4	3455.5	3410.5	3395.5	3405.5	3475.4
57.5°	16163.8	10945.6	3680.2	3380.6	3370.6	3315.6	3260.7	3245.7	3240.7	3250.7	3270.7
60°	13122.8	8084.4	3285.7	3180.8	3165.8	3155.9	3100.9	3041.0	3011.0	3041.0	3016.0
62.5°	8683.6	5412.9	2896.2	2941.1	2951.1	2926.2	2836.3	2776.4	2786.3	2821.3	2766.4
65°	4264.4	3180.8	2626.5	2746.4	2756.4	2686.5	2601.6	2531.7	2496.7	2526.7	2501.7
67.5°	2436.8	2431.8	2406.8	2531.7	2526.7	2456.8	2321.9	2262.0	2202.1	2212.1	2197.1
70°	2067.3	2107.2	2157.2	2232.1	2227.1	2147.2	1987.4	1942.4	1857.6	1847.6	1822.6
72.5°	1627.9	1697.8	1807.6	1862.6	1817.6	1717.7	1612.9	1538.0	1463.1	1418.1	1433.1
75°	1208.4	1308.3	1368.2	1403.2	1333.2	1278.3	1193.4	1103.6	1013.7	973.7	958.7
77.5°	878.8	908.8	963.7	988.7	943.8	888.8	838.9	749.0	664.1	609.2	594.2
80°	614.2	634.2	674.1	674.1	674.1	649.1	584.2	494.4	439.4	389.5	379.5
82.5°	429.4	449.4	489.4	469.4	464.4	434.4	394.5	324.6	264.7	229.7	219.7
85°	149.8	164.8	199.7	239.7	254.7	249.7	224.7	179.8	139.8	114.8	104.9
87.5°	35.0	35.0	39.9	35.0	35.0	39.9	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)