

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: P532548

Luminaire Tested: **GALN-SA7D-830-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532548
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7D-830-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36291 lumens
Efficiency: N/A
Efficacy: 83.8 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): 433
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

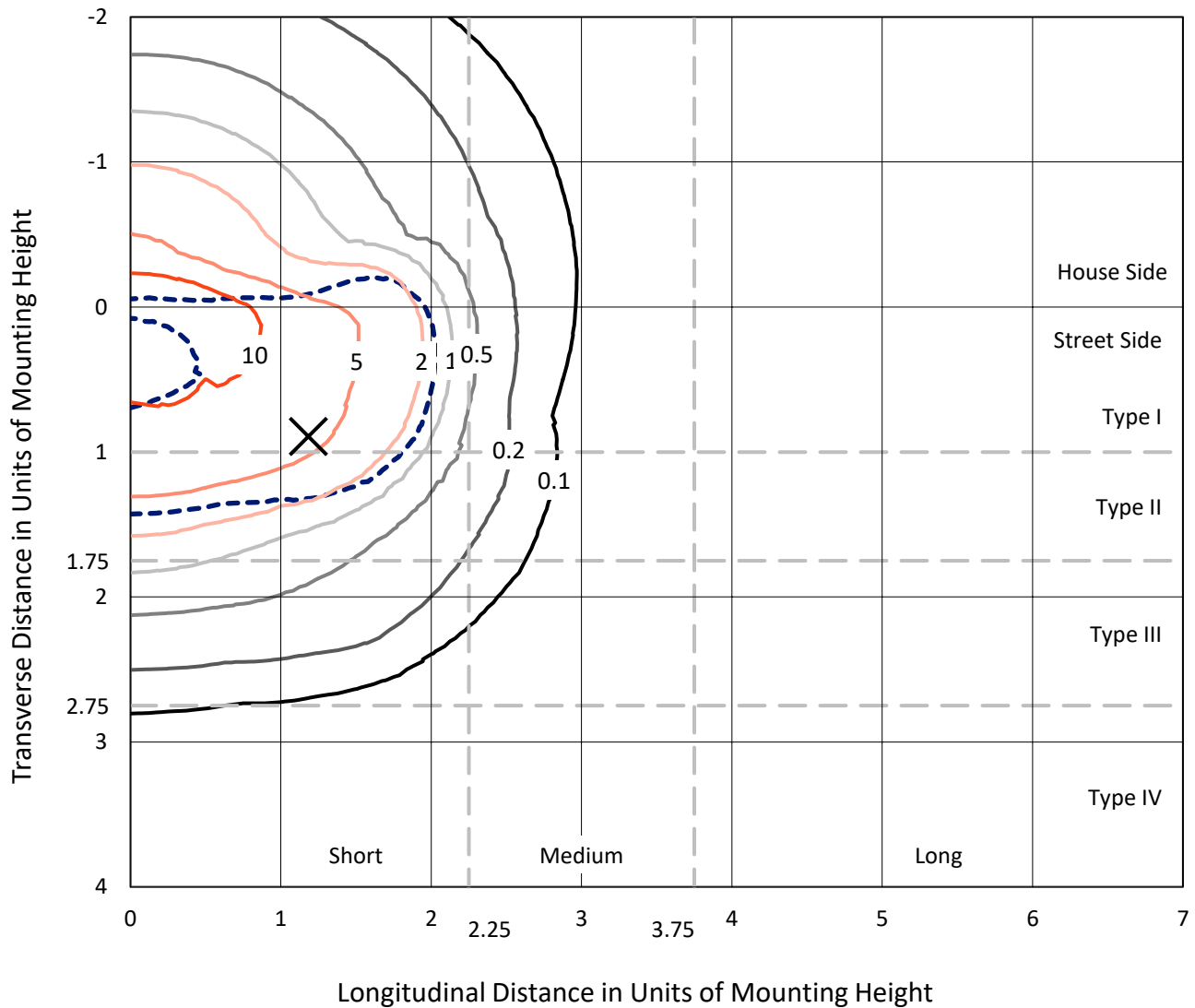


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Iso-Footcandle Lines of Horizontal Illumination

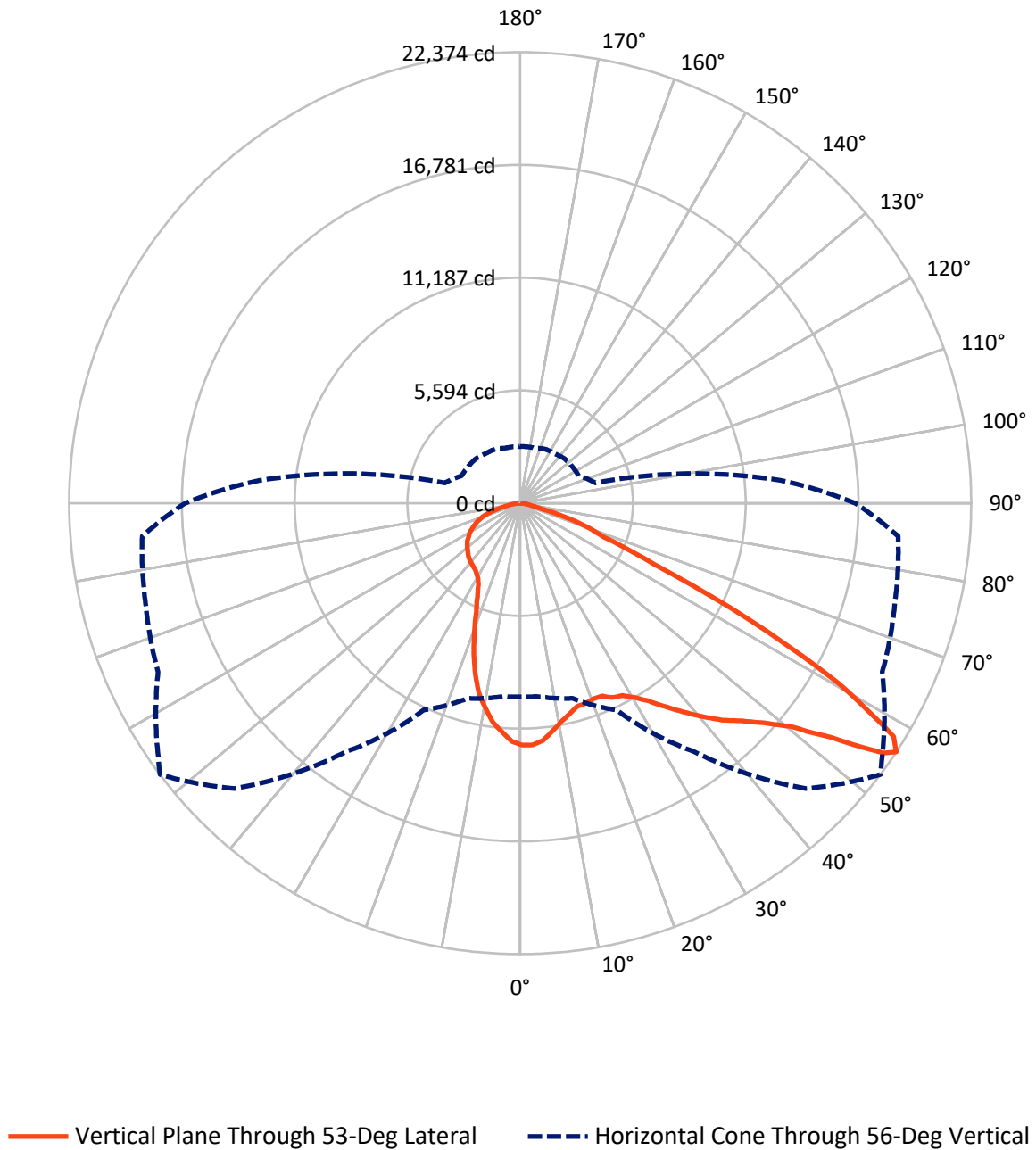
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10590.5	0.0	10590.5
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	25700.5	0.0	25700.5
	% Fixture	70.8	0.0	70.8
Total	Lumens	36291.0	0.0	36291.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1062.9	2.9
10°-20°	2654.7	7.3
20°-30°	3914.6	10.8
30°-40°	5593.2	15.4
40°-50°	7698.3	21.2
50°-60°	9097.3	25.1
60°-70°	4848.3	13.4
70°-80°	1230.0	3.4
80°-90°	191.8	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°	36291.0	100.0
0°-180°	36291.0	100.0

Coefficient of Utilization



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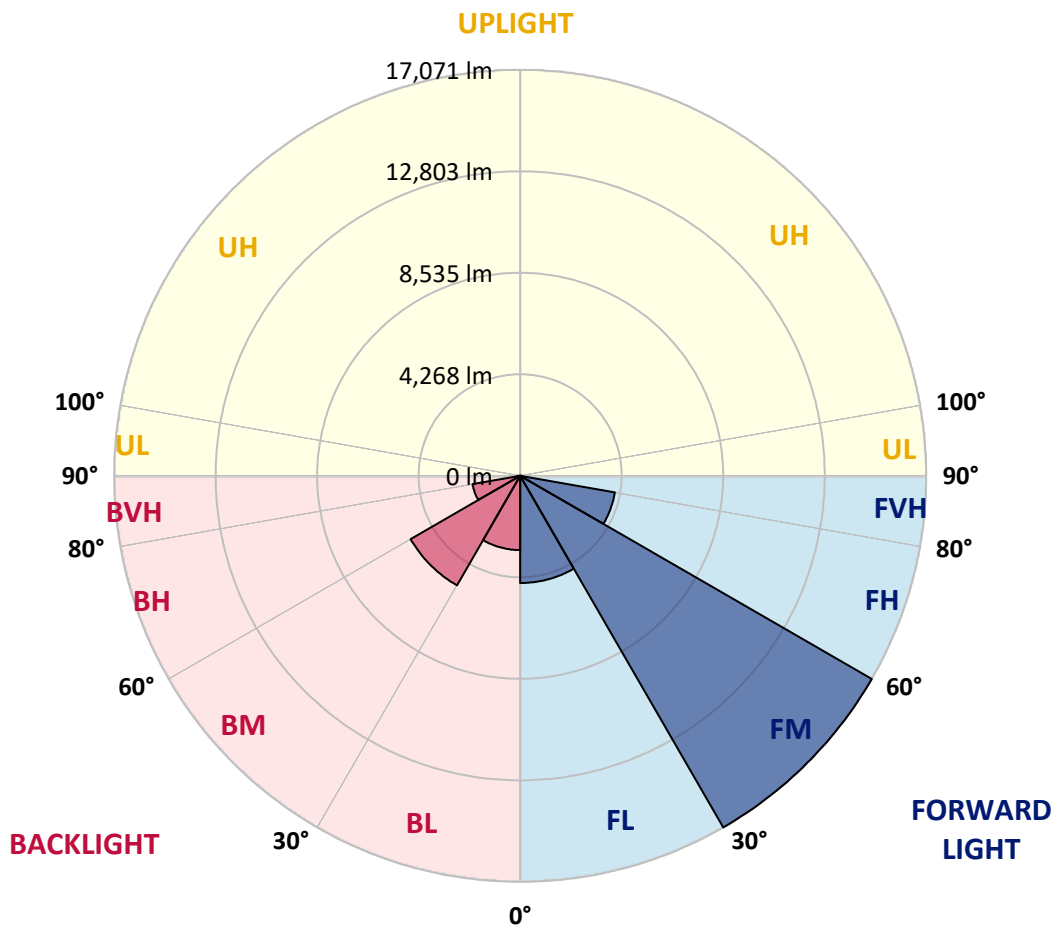
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4508.6	12.4			
FM	(30°-60°)	17070.6	47.0			
FH	(60°-80°)	4044.2	11.1			G2/5000
FVH	(80°-90°)	77.1	0.2			G1/100
BL	(0°-30°)	3123.6	8.6	B4/5000		
BM	(30°-60°)	5318.2	14.7	B4/8500		
BH	(60°-80°)	2034.0	5.6	B3/2500		G3/2500
BVH	(80°-90°)	114.7	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°	53°	55°	65°	75°	85°
0°	12006.5	12006.5	12006.5	12006.5	12006.5	12006.5	12006.5	12006.5	12006.5	12006.5	12006.5
2.5°	11857.5	11755.1	11815.6	11792.3	11983.2	12039.1	12011.1	12034.4	12141.5	12090.3	11983.2
5°	11080.1	11224.4	11252.3	11322.1	11433.9	11652.7	11824.9	11871.5	11922.7	12160.1	12136.8
7.5°	10372.4	10470.2	10419.0	10623.8	10865.9	11219.7	11429.2	11466.5	11936.7	12067.0	12164.8
10°	9925.5	9827.7	10060.5	10116.4	10391.0	10796.1	11047.5	11201.1	11629.4	12146.2	12206.7
12.5°	9511.2	9478.6	9618.2	9776.5	10083.8	10502.8	10758.8	10819.3	11480.4	12025.1	12309.1
15°	9203.9	9166.6	9306.3	9422.7	9781.2	10153.6	10479.5	10651.7	11317.5	11955.3	12220.6
17.5°	8961.8	8957.2	9036.3	9245.8	9613.6	9925.5	10451.6	10460.9	11233.7	12062.4	12295.1
20°	8947.8	8943.2	8957.2	9189.9	9525.1	9906.9	10363.1	10446.9	11233.7	11987.9	12299.8
22.5°	9064.2	8989.7	9073.5	9222.5	9464.6	9939.5	10395.7	10581.9	11503.7	12355.7	12509.3
25°	9250.4	9269.1	9315.6	9366.8	9506.5	10013.9	10684.3	10838.0	11820.3	12672.2	12797.9
27.5°	9590.3	9581.0	9599.6	9627.5	9748.6	10083.8	10800.7	11196.4	12481.4	13235.5	13109.8
30°	10088.4	10055.8	10130.3	10228.1	10116.4	10307.2	11187.1	11485.1	13095.9	13803.5	13459.0
32.5°	10540.0	10661.1	10800.7	10842.6	10707.6	10744.9	11699.2	12001.8	13608.0	14501.8	13887.3
35°	11103.3	11201.1	11387.3	11517.7	11494.4	11382.7	12397.6	12797.9	14348.2	15013.9	14338.9
37.5°	11652.7	11769.1	12076.3	12462.7	12248.6	12197.4	13142.4	13473.0	14576.3	15288.6	14669.4
40°	12537.2	12532.6	13063.3	13263.5	13454.3	13365.9	13915.2	14027.0	14697.4	15228.1	14678.7
42.5°	13575.4	13510.2	14050.3	14362.2	14608.9	14618.2	14720.6	14683.4	14753.2	14920.8	14581.0
45°	14562.4	14702.0	15246.7	15805.4	16052.1	16080.0	15400.3	15330.5	14851.0	14832.4	14394.8
47.5°	15768.1	15800.7	16247.6	16983.2	17555.8	17360.3	16280.2	16126.6	15279.3	15423.6	14706.7
50°	15838.0	16080.0	16480.4	17346.3	19106.1	19054.9	17420.8	17132.2	15968.3	16261.6	15577.2
52.5°	14376.1	14320.3	14795.1	16210.4	18989.7	20740.2	19310.9	18621.9	17448.8	17225.3	16987.9
55°	10954.4	11084.7	11503.7	12932.9	16489.7	20763.5	21885.4	21322.1	19031.6	18649.9	18375.2
56°	9608.9	9627.5	10023.3	11326.8	15046.5	20023.2	22374.3	21918.0	19818.4	19236.5	18817.5
57.5°	7965.5	7858.5	8063.3	8775.6	12700.2	18459.0	21838.9	22285.8	20740.2	19869.6	19287.7
60°	6270.9	6247.7	6163.9	6294.2	8026.1	13905.9	18179.7	19185.2	20647.1	19273.7	18473.0
62.5°	5121.0	5004.6	5172.2	5358.5	5577.3	8626.6	12774.6	13365.9	16392.0	15386.4	13878.0
65°	3971.1	3915.3	4124.8	4730.0	4860.3	5479.5	7276.5	7732.8	9678.8	9506.5	8370.6
67.5°	2732.8	2742.1	2923.6	3845.4	4506.5	4450.6	4455.3	4692.7	5051.2	3752.3	3268.1
70°	1731.8	1727.2	1824.9	2476.7	3626.6	3663.9	3477.6	3407.8	3230.9	1955.3	2071.7
72.5°	1112.7	1080.1	1131.3	1368.7	1876.2	2169.5	2234.6	2276.5	1871.5	1536.3	1666.7
75°	628.5	595.9	577.3	637.8	740.2	856.6	940.4	968.3	1084.7	1163.9	1233.7
77.5°	190.9	172.3	209.5	279.3	367.8	493.5	600.6	619.2	730.9	824.0	893.9
80°	83.8	93.1	130.4	186.2	260.7	349.2	423.6	451.6	526.1	595.9	614.5
82.5°	51.2	55.9	88.5	125.7	181.6	246.7	302.6	311.9	386.4	442.3	456.2
85°	18.6	23.3	46.6	74.5	116.4	158.3	158.3	172.3	158.3	158.3	172.3
87.5°	0.0	0.0	4.7	9.3	9.3	14.0	18.6	18.6	23.3	27.9	32.6
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°	12006.5	12006.5	12006.5	12006.5	12006.5	12006.5	12006.5	12006.5	12006.5	12006.5	12006.5
2.5°	12039.1	12015.8	11978.6	11843.6	11829.6	11787.7	11554.9	11517.7	11554.9	11443.2	11452.5
5°	12015.8	12085.6	11806.3	11671.3	11419.9	11238.3	11028.8	10921.8	10730.9	10609.8	10744.9
7.5°	12118.2	12090.3	11741.1	11447.8	11070.7	10609.8	10242.1	10032.6	9697.4	9604.3	9674.1
10°	12081.0	11932.0	11522.3	11135.9	10423.6	10018.6	9422.7	8845.4	8528.8	8365.9	8342.6
12.5°	12029.8	11987.9	11303.5	10637.8	9888.2	9036.3	8198.3	7653.6	7136.9	6913.4	6946.0
15°	12090.3	11736.5	10893.8	10051.2	9054.9	7937.6	7034.4	6331.5	5973.0	5828.7	5828.7
17.5°	12062.4	11615.4	10698.3	9394.8	8133.1	6811.0	5819.4	5395.7	5246.7	5246.7	5288.6
20°	12076.3	11694.6	10302.6	8738.3	7043.7	5735.6	5014.0	4860.3	4925.5	4948.8	4972.1
22.5°	12155.5	11433.9	9916.2	8016.7	6033.5	4906.9	4553.1	4557.7	4674.1	4799.8	4776.5
25°	12253.2	11331.4	9446.0	7299.8	5260.7	4501.9	4390.1	4376.2	4464.6	4529.8	4539.1
27.5°	12169.4	11154.5	8966.5	6405.9	4627.6	4231.8	4208.6	4217.9	4245.8	4376.2	4334.3
30°	12444.1	11205.7	8365.9	5656.4	4278.4	4143.4	4115.4	4101.5	4143.4	4180.6	4148.0
32.5°	12784.0	11024.2	7919.0	4934.8	4106.1	4078.2	4022.3	4003.7	4027.0	3989.7	4008.4
35°	12932.9	10991.6	7337.0	4418.1	3971.1	3947.9	3915.3	3910.6	3915.3	3882.7	3854.7
37.5°	13016.7	11145.2	6671.3	4180.6	3887.3	3910.6	3836.1	3826.8	3743.0	3761.6	3775.6
40°	13161.1	10907.8	6131.3	3952.5	3836.1	3789.6	3724.4	3710.4	3654.6	3622.0	3654.6
42.5°	12951.6	10838.0	5600.5	3854.7	3761.6	3710.4	3663.9	3584.7	3566.1	3538.2	3519.5
45°	12784.0	10437.6	5125.7	3733.7	3673.2	3645.2	3556.8	3473.0	3403.2	3431.1	3389.2
47.5°	12909.7	10297.9	4655.5	3631.3	3552.1	3519.5	3431.1	3365.9	3296.1	3263.5	3254.2
50°	13412.4	10558.6	4259.8	3556.8	3449.7	3431.1	3314.7	3240.2	3175.0	3151.8	3161.1
52.5°	14613.6	11270.9	3989.7	3403.2	3351.9	3268.1	3203.0	3109.9	3068.0	2993.5	3040.0
55°	16135.9	12430.1	3919.9	3258.8	3230.9	3156.4	3068.0	2998.1	2919.0	2858.5	2844.5
56°	16624.7	12984.1	3864.1	3203.0	3156.4	3114.5	2998.1	2956.2	2830.5	2816.6	2807.3
57.5°	17020.4	13473.0	3873.4	3095.9	3049.3	3012.1	2942.3	2839.8	2756.0	2704.8	2728.1
60°	16126.6	12611.7	3696.5	2933.0	2923.6	2853.8	2756.0	2709.5	2607.1	2546.5	2532.6
62.5°	11987.9	8561.4	2998.1	2723.5	2718.8	2644.3	2532.6	2481.4	2462.8	2379.0	2379.0
65°	6904.1	5367.8	2593.1	2551.2	2514.0	2439.5	2327.7	2285.8	2239.3	2211.4	2188.1
67.5°	2946.9	2784.0	2355.7	2351.0	2309.1	2216.0	2104.3	2039.1	1978.6	1922.7	1950.6
70°	2136.9	2169.5	2127.6	2104.3	2053.1	1936.7	1838.9	1759.8	1666.7	1629.4	1657.4
72.5°	1694.6	1764.4	1824.9	1829.6	1769.1	1634.1	1527.0	1419.9	1317.5	1266.3	1289.6
75°	1284.9	1331.5	1392.0	1406.0	1317.5	1224.4	1122.0	1010.2	931.1	870.6	879.9
77.5°	926.4	917.1	973.0	963.7	921.8	856.6	763.5	661.1	572.6	516.8	521.4
80°	633.1	647.1	679.7	675.0	623.8	581.9	512.1	428.3	363.1	316.6	307.3
82.5°	442.3	465.5	493.5	470.2	428.3	386.4	335.2	274.7	223.5	186.2	176.9
85°	158.3	181.6	209.5	223.5	237.4	228.1	190.9	153.6	111.7	93.1	88.5
87.5°	32.6	37.2	41.9	41.9	41.9	37.2	32.6	32.6	27.9	14.0	14.0
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)