

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: P954865

Luminaire Tested: **GALN-SB8A-727-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954865
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB8A-727-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34539 lumens
Efficiency: N/A
Efficacy: 152.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 227.1
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



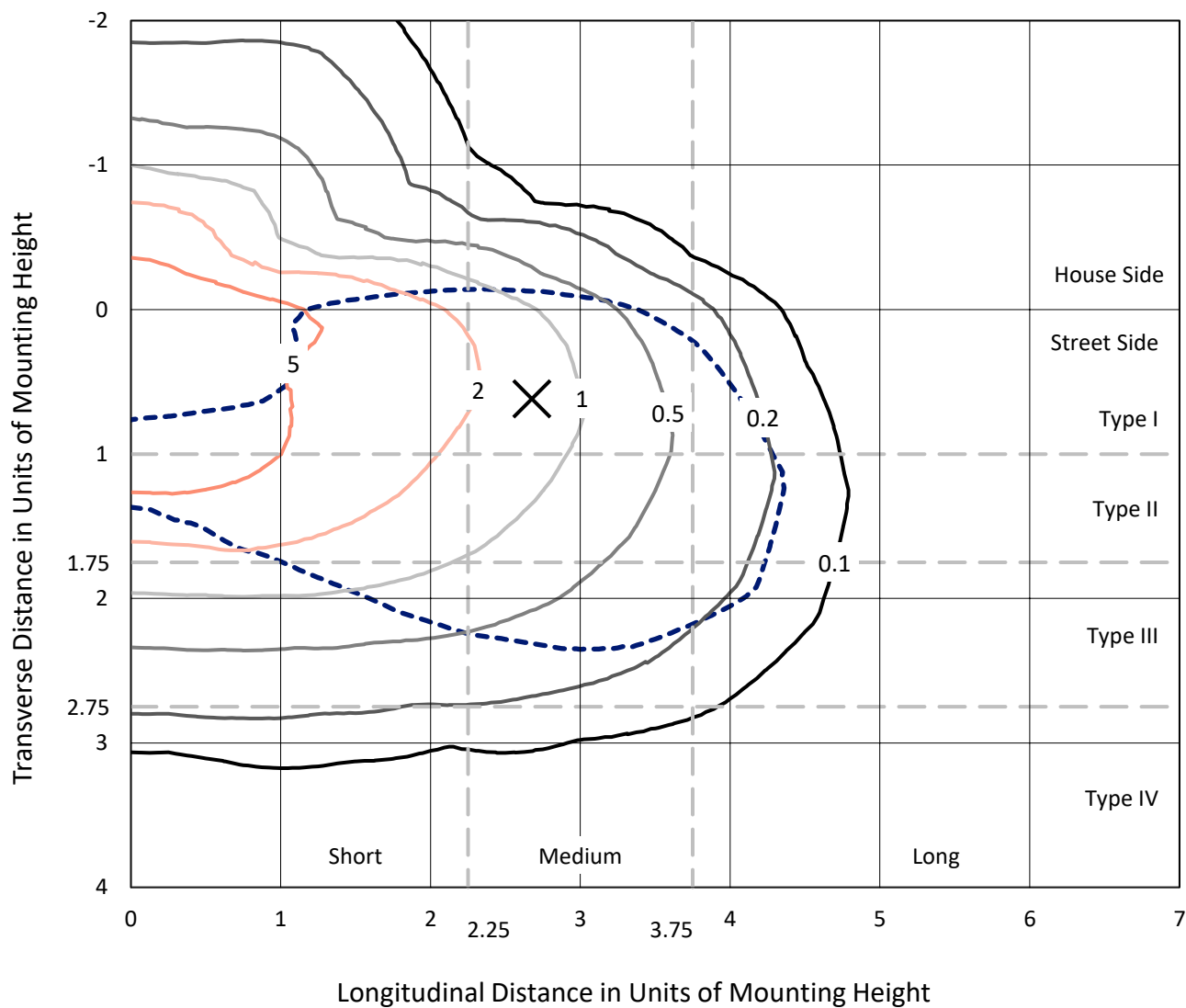
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

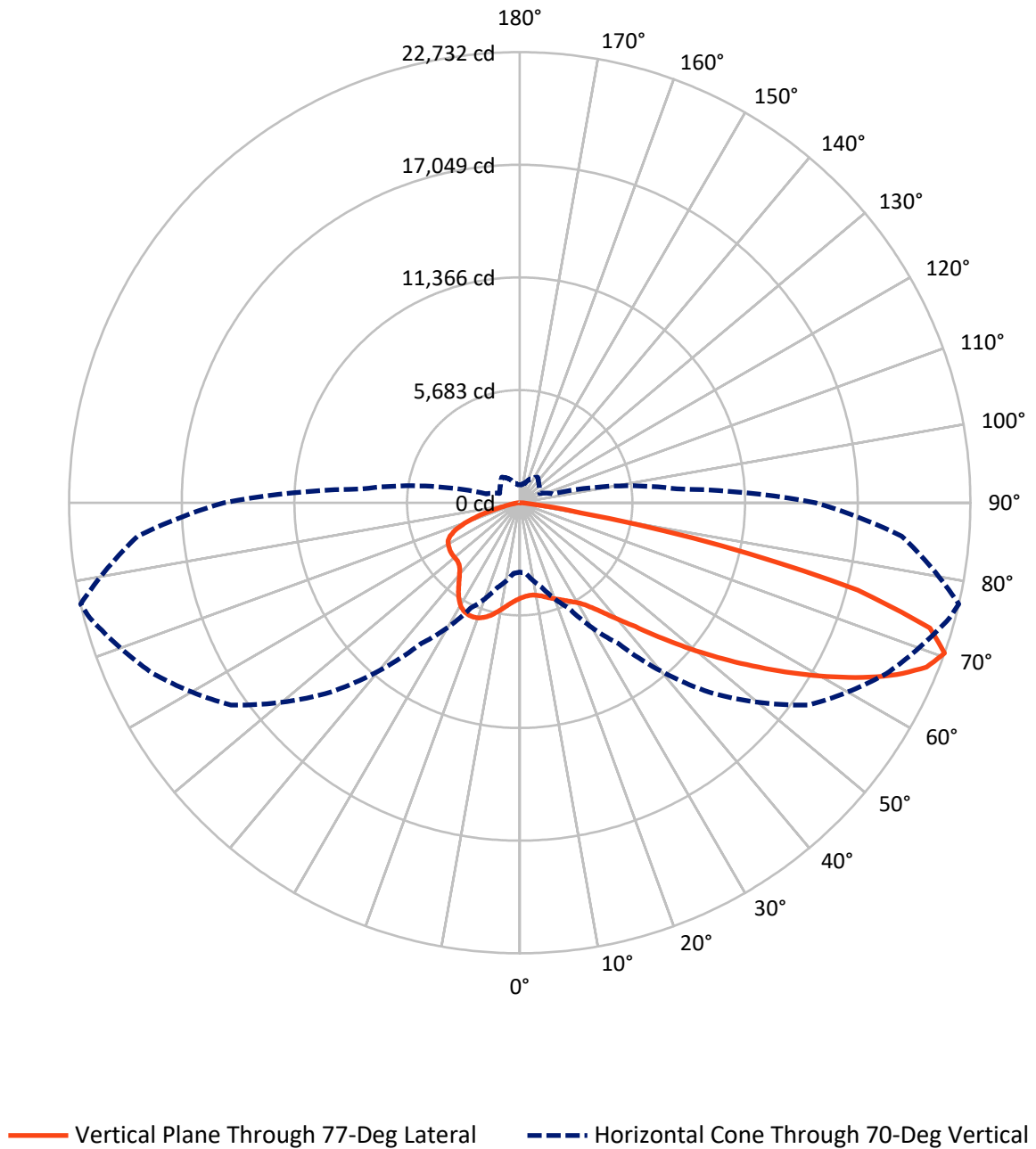


Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7563.5	0.0	7563.5
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	26975.5	0.0	26975.5
	% Fixture	78.1	0.0	78.1
Total	Lumens	34539.0	0.0	34539.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	459.6	1.3
10°-20°	1326.3	3.8
20°-30°	2268.2	6.6
30°-40°	3647.5	10.6
40°-50°	5694.7	16.5
50°-60°	7606.8	22.0
60°-70°	8107.6	23.5
70°-80°	4991.0	14.5
80°-90°	437.4	1.3
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°	34539.0	100.0
0°-180°	34539.0	100.0

Coefficient of Utilization



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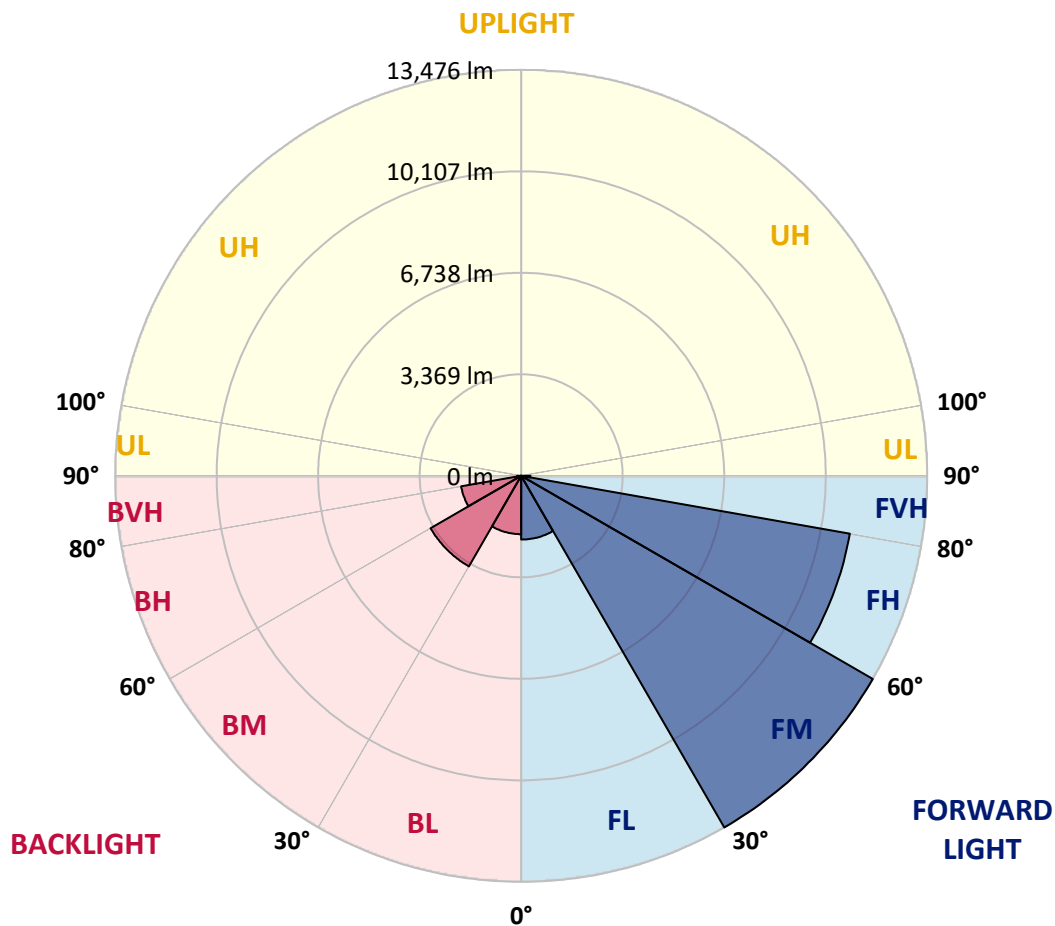
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2116.1	6.1			
FM	(30°-60°)	13476.4	39.0			
FH	(60°-80°)	11077.2	32.1			G4/12000
FVH	(80°-90°)	305.8	0.9			G3/500
BL	(0°-30°)	1938.0	5.6	B3/2500		
BM	(30°-60°)	3472.6	10.1	B3/5000		
BH	(60°-80°)	2021.4	5.9	B3/2500		G3/2500
BVH	(80°-90°)	131.5	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	4818.5	4818.5	4818.5	4818.5	4818.5	4818.5	4818.5	4818.5	4818.5	4818.5	4818.5
2.5°	4441.7	4440.0	4463.0	4470.0	4512.5	4542.6	4599.2	4659.3	4737.1	4746.0	4793.7
5°	4185.2	4185.2	4211.8	4240.1	4294.9	4355.1	4441.7	4546.1	4680.5	4701.8	4820.3
7.5°	3967.7	3981.8	4004.8	4059.6	4123.3	4210.0	4342.7	4491.3	4668.1	4701.8	4892.8
10°	3792.5	3808.5	3836.8	3881.0	3976.5	4096.8	4270.1	4461.2	4698.2	4751.3	4998.9
12.5°	3737.7	3753.6	3769.5	3803.2	3891.6	4033.1	4240.1	4475.3	4770.7	4823.8	5144.0
15°	3865.1	3884.5	3872.1	3863.3	3909.3	4038.4	4254.2	4526.6	4861.0	4937.0	5322.6
17.5°	4158.7	4165.8	4137.5	4054.3	4047.3	4116.2	4321.4	4597.4	4974.2	5057.3	5503.1
20°	4632.8	4620.4	4562.0	4397.5	4303.8	4289.6	4436.4	4703.5	5090.9	5179.4	5697.7
22.5°	5276.7	5262.5	5145.8	4885.7	4677.0	4539.0	4602.7	4841.5	5221.8	5320.9	5886.9
25°	6079.7	6060.3	5888.7	5534.9	5211.2	4869.8	4829.1	5023.7	5382.8	5474.8	6085.0
27.5°	7017.3	7001.3	6815.6	6348.6	5881.6	5322.6	5110.4	5237.7	5550.8	5655.2	6307.9
30°	8025.5	8071.5	7742.5	7240.1	6649.3	5913.5	5488.9	5501.3	5768.4	5862.2	6578.6
32.5°	9210.7	9290.3	8894.1	8257.3	7450.6	6555.6	5966.5	5869.2	6085.0	6162.9	6920.0
35°	10385.3	10475.5	10146.5	9442.4	8513.8	7312.7	6465.4	6292.0	6506.0	6591.0	7372.8
37.5°	11400.6	11520.9	11351.1	10739.0	9651.2	8225.4	7116.3	6789.1	7024.3	7130.5	7981.3
40°	12201.9	12385.9	12373.5	11991.4	10992.0	9332.8	7942.4	7402.9	7668.2	7783.2	8718.9
42.5°	12852.9	13012.1	13150.1	13130.6	12391.2	10590.5	8913.5	8200.7	8402.3	8535.0	9548.6
45°	13302.2	13472.0	13769.2	14089.4	13737.3	11936.6	10026.2	9147.0	9331.0	9530.9	10537.4
47.5°	13703.7	13896.5	14282.2	14789.8	14880.1	13288.0	11244.9	10249.1	10417.1	10624.1	11529.7
50°	13739.1	13905.4	14503.3	15223.2	15692.0	14586.4	12553.9	11485.5	11643.0	11864.1	12592.9
52.5°	12884.7	13146.5	14190.2	15210.8	16065.2	15672.5	13854.1	12771.5	12948.4	13213.7	13693.1
55°	10001.4	10385.3	13272.1	14736.8	15932.6	16374.8	15090.6	14138.9	14365.3	14643.0	14800.5
57.5°	8614.6	8782.6	10535.6	13873.5	15327.6	16557.0	16134.2	15520.4	15884.8	16189.0	15971.5
60°	7742.5	7882.3	8918.8	12530.9	14531.6	16268.6	16940.8	16808.2	17437.9	17800.5	17169.0
62.5°	6808.5	6941.2	7884.0	10463.1	13512.7	15789.3	17450.3	17996.9	19029.9	19426.1	18297.6
65°	5881.6	5994.8	6898.7	8791.5	12217.8	15309.9	17713.8	19024.6	20503.4	20913.8	19235.1
67.5°	4848.6	4942.3	5796.7	7417.0	10643.5	14653.6	17844.7	19833.0	21785.9	22137.9	19698.6
70°	3498.9	3571.4	4454.1	5865.7	8667.6	13525.1	17791.7	20406.1	22451.0	22732.2	19348.3
72.5°	1653.9	1719.4	2756.0	3808.5	6122.2	11328.1	16718.0	19951.5	21775.3	21635.5	17204.4
75°	882.7	939.3	1583.2	2089.1	3233.6	7765.5	13680.7	17186.7	18285.2	17605.9	12714.9
77.5°	597.9	642.1	980.0	1254.2	1477.0	3686.4	8793.2	11899.4	11448.4	10326.9	6368.1
80°	474.1	520.1	803.1	849.1	714.6	1332.0	3633.3	5508.4	3957.0	3164.6	1811.4
82.5°	364.4	415.7	675.7	615.6	389.2	546.6	1057.8	1742.4	1013.6	771.2	438.7
85°	222.9	277.7	530.7	392.7	219.3	249.4	359.1	484.7	309.6	258.3	157.4
87.5°	113.2	159.2	268.9	143.3	99.1	58.4	95.5	95.5	81.4	70.8	40.7
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°	4818.5	4818.5	4818.5	4818.5	4818.5	4818.5	4818.5	4818.5	4818.5	4818.5	4818.5
2.5°	4836.2	4871.6	4931.7	4988.3	5032.5	5075.0	5117.5	5140.4	5147.5	5175.8	5191.7
5°	4892.8	4958.2	5075.0	5184.7	5253.7	5296.1	5326.2	5343.9	5347.4	5356.3	5370.4
7.5°	4997.2	5101.5	5264.3	5373.9	5425.2	5421.7	5409.3	5365.1	5347.4	5331.5	5335.0
10°	5144.0	5282.0	5481.8	5557.9	5526.1	5441.2	5331.5	5202.4	5142.2	5083.8	5066.2
12.5°	5326.2	5501.3	5697.7	5694.1	5536.7	5319.1	5064.4	4866.3	4740.7	4650.5	4629.2
15°	5547.3	5749.0	5899.3	5779.0	5434.1	5043.2	4669.9	4411.7	4298.4	4199.4	4188.8
17.5°	5775.5	5991.3	6060.3	5752.5	5175.8	4634.5	4211.8	4008.3	3896.9	3843.8	3859.8
20°	5998.4	6212.4	6155.8	5600.4	4783.1	4171.1	3794.3	3682.9	3659.9	3672.3	3666.9
22.5°	6233.6	6424.7	6175.3	5306.7	4282.5	3697.0	3490.1	3493.6	3544.9	3582.0	3590.9
25°	6474.2	6603.3	6124.0	4882.2	3744.8	3348.5	3297.2	3353.8	3454.7	3527.2	3546.7
27.5°	6705.9	6762.5	6012.5	4356.8	3283.1	3099.1	3108.0	3224.7	3376.8	3477.7	3502.4
30°	6967.7	6904.0	5798.5	3766.0	2962.9	2885.1	2959.4	3095.6	3247.7	3337.9	3359.2
32.5°	7263.1	7026.1	5458.9	3219.4	2736.5	2713.5	2835.6	2924.0	2991.2	3017.8	3031.9
35°	7631.1	7197.7	5023.7	2835.6	2533.1	2587.9	2704.7	2660.4	2633.9	2619.8	2633.9
37.5°	8108.7	7429.4	4514.3	2586.1	2368.6	2497.7	2545.5	2407.5	2303.1	2251.8	2264.2
40°	8683.6	7769.0	4024.3	2393.3	2264.2	2419.9	2336.7	2170.5	2037.8	1965.3	1970.6
42.5°	9322.1	8124.6	3612.1	2248.3	2205.8	2356.2	2182.8	1984.7	1770.7	1747.7	1770.7
45°	9992.6	8490.8	3330.9	2136.8	2177.5	2301.3	2094.4	1774.2	1622.1	1715.8	1765.4
47.5°	10663.0	8826.9	3161.0	2053.7	2163.4	2239.4	2016.6	1657.5	1549.6	1685.8	1749.5
50°	11409.5	9127.6	3085.0	1993.6	2147.5	2214.7	1899.8	1627.4	1473.5	1563.7	1630.9
52.5°	12150.6	9361.1	3028.4	1933.4	2124.5	2195.2	1843.2	1592.0	1381.5	1386.8	1424.0
55°	12890.0	9513.2	2966.5	1853.8	2073.2	2152.8	1837.9	1553.1	1312.5	1287.8	1305.5
57.5°	13679.0	9599.9	2890.4	1765.4	1984.7	2044.9	1832.6	1523.0	1291.3	1250.6	1255.9
60°	14482.1	9727.2	2791.3	1657.5	1866.2	1915.7	1820.2	1512.4	1278.9	1209.9	1215.2
62.5°	15202.0	9771.4	2672.8	1554.9	1714.1	1788.4	1793.7	1503.6	1245.3	1126.8	1126.8
65°	15674.3	9580.4	2465.9	1438.1	1549.6	1657.5	1742.4	1473.5	1185.2	1066.7	1066.7
67.5°	15654.8	9035.6	2142.1	1287.8	1390.4	1512.4	1668.1	1422.2	1112.6	992.4	997.7
70°	14926.0	7960.1	1731.8	1112.6	1215.2	1356.8	1572.6	1346.1	1026.0	911.0	921.6
72.5°	12801.6	6230.1	1257.7	907.4	1011.8	1195.8	1448.7	1254.2	937.5	838.5	833.2
75°	9145.3	3942.9	852.6	696.9	787.2	1013.6	1294.8	1146.3	856.2	842.0	794.2
77.5°	4671.7	1883.9	564.3	509.4	548.4	799.5	1087.9	1024.2	868.5	695.2	619.1
80°	1519.5	695.2	355.6	346.7	364.4	532.4	842.0	840.2	658.0	472.3	417.5
82.5°	484.7	298.9	231.7	222.9	214.0	334.3	587.3	665.1	444.0	298.9	297.2
85°	192.8	178.7	136.2	125.6	90.2	157.4	307.8	442.2	330.8	215.8	221.1
87.5°	70.8	70.8	37.1	26.5	19.5	53.1	83.1	132.7	189.3	111.4	109.7
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)