

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: P457922

Luminaire Tested: **GALN-SA9B-740-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457922
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-740-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51879 lumens
Efficiency: N/A
Efficacy: 142.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

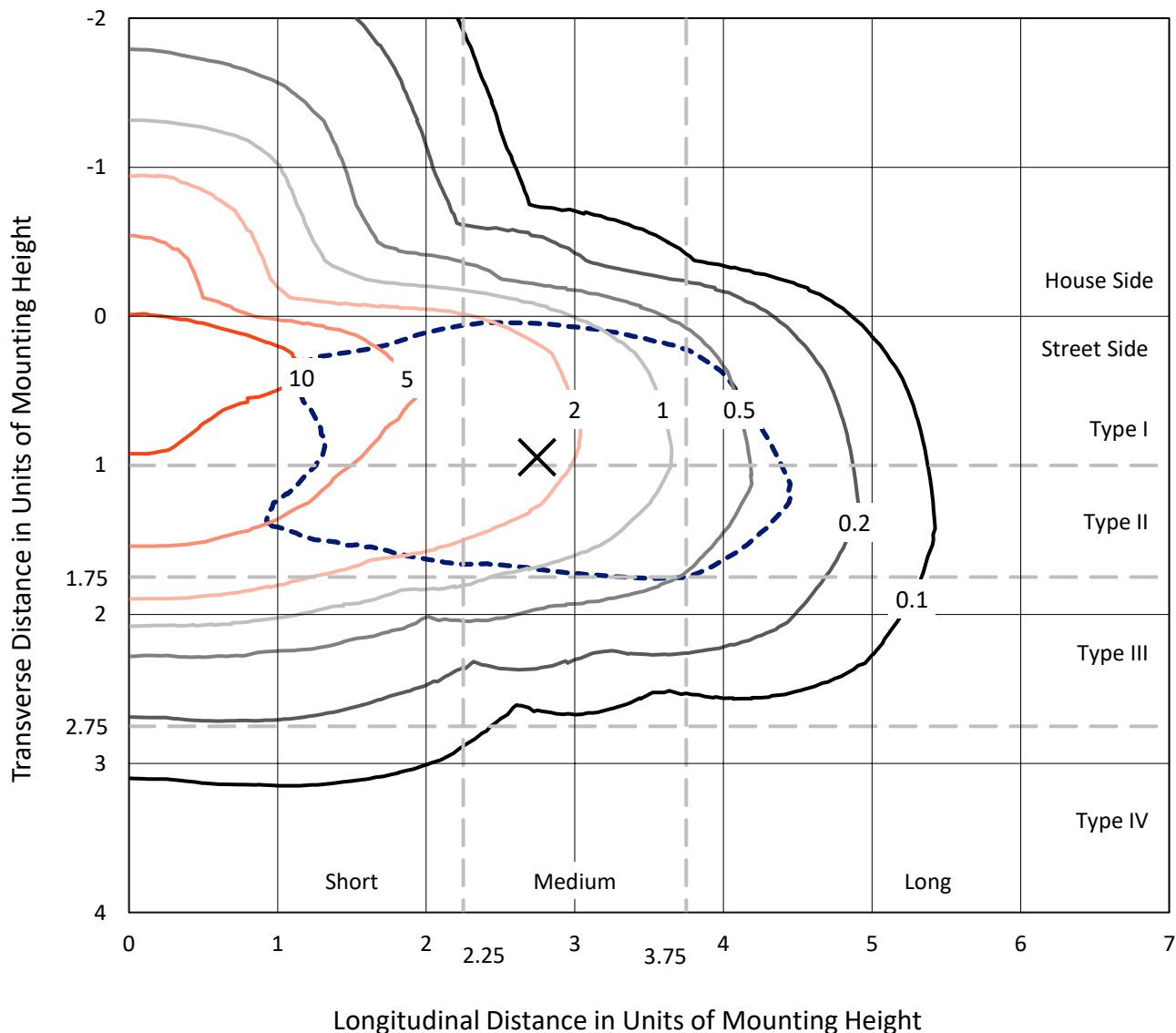
Input Watts (W): 364
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

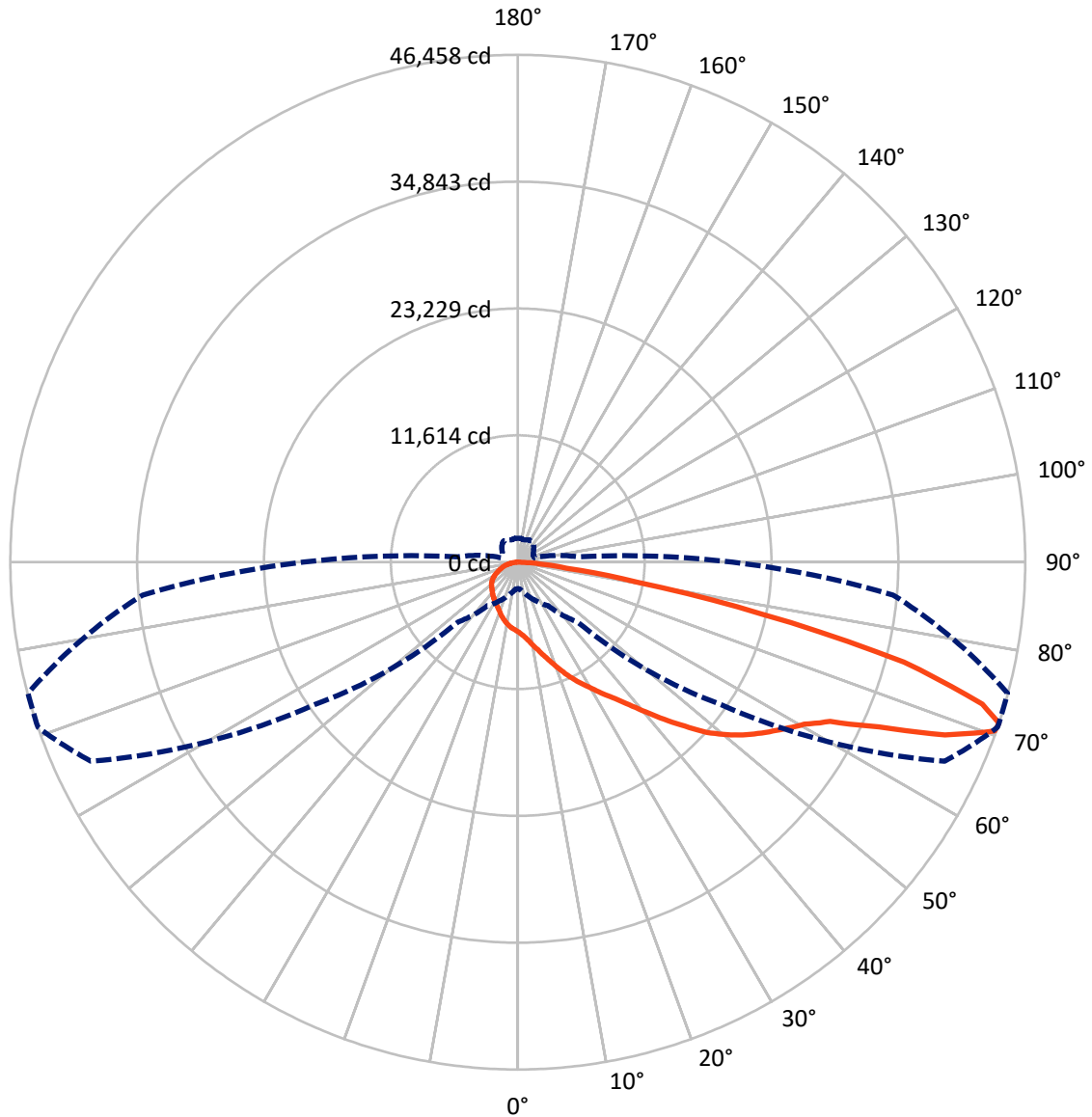
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9330.3	0.0	9330.3
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	42548.7	0.0	42548.7
	% Fixture	82.0	0.0	82.0
Total	Lumens	51879.0	0.0	51879.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	639.3	1.2
10°-20°	2077.0	4.0
20°-30°	3629.8	7.0
30°-40°	5398.9	10.4
40°-50°	7954.5	15.3
50°-60°	11136.5	21.5
60°-70°	12455.8	24.0
70°-80°	7608.5	14.7
80°-90°	978.7	1.9
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°	51879.0	100.0
0°-180°	51879.0	100.0

Coefficient of Utilization



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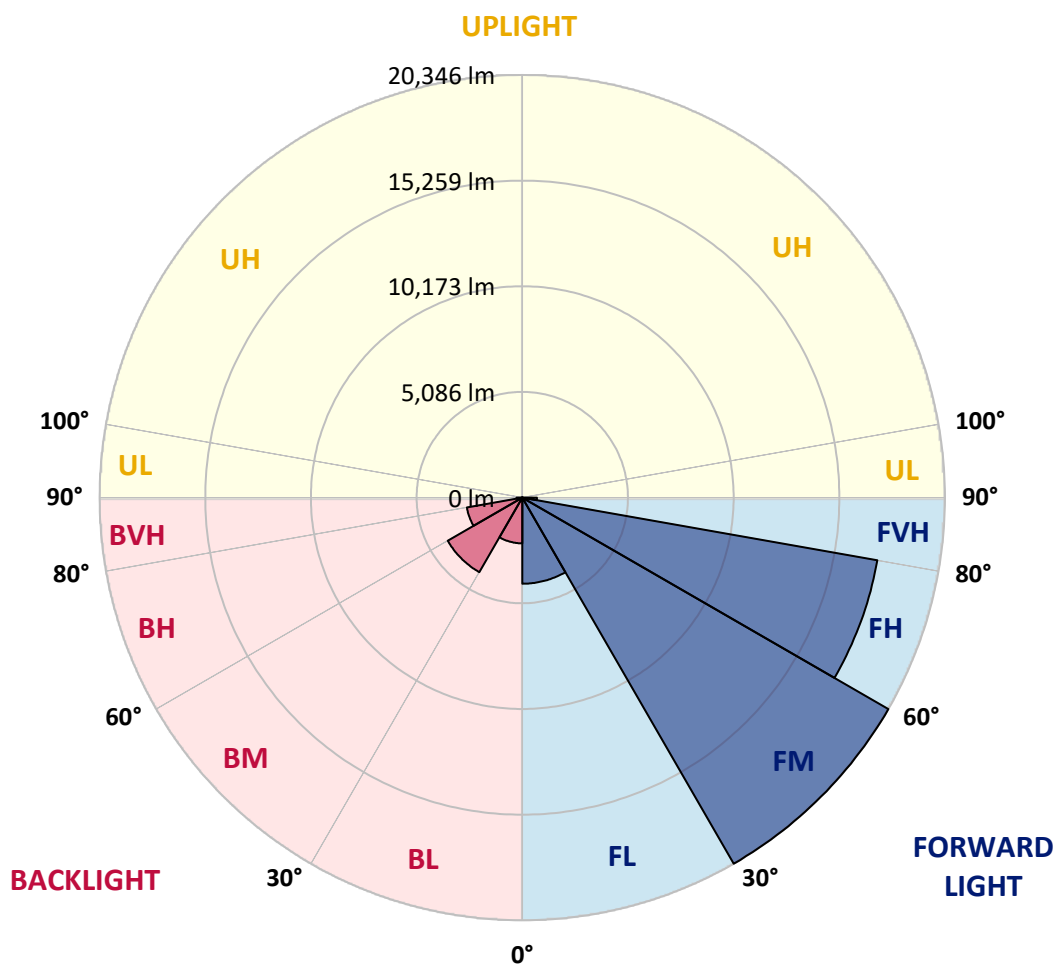
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4145.2	8.0			
FM	(30°-60°)	20345.9	39.2			
FH	(60°-80°)	17353.4	33.4			G5
FVH	(80°-90°)	704.2	1.4			G4/750
BL	(0°-30°)	2201.0	4.2	B3/2500		
BM	(30°-60°)	4144.0	8.0	B3/5000		
BH	(60°-80°)	2710.9	5.2	B4/5000		G4/5000
BVH	(80°-90°)	274.5	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	6367.1	6367.1	6367.1	6367.1	6367.1	6367.1	6367.1	6367.1	6367.1	6367.1	6367.1
2.5°	7068.6	7034.3	7037.2	6988.7	6926.0	6857.6	6760.6	6675.1	6606.6	6566.7	6449.8
5°	7832.7	7798.5	7755.7	7650.2	7604.6	7436.4	7222.5	7028.6	6880.4	6797.7	6563.9
7.5°	8451.5	8442.9	8431.5	8371.6	8254.7	8020.9	7838.4	7502.0	7282.4	7125.6	6726.4
10°	8833.6	8847.8	8856.4	8867.8	8819.3	8696.7	8445.8	8020.9	7741.5	7541.9	6937.4
12.5°	9027.5	9041.7	9090.2	9195.7	9261.3	9247.0	9041.7	8625.4	8240.5	7978.2	7162.7
15°	9147.2	9170.0	9255.6	9395.3	9614.8	9754.6	9654.8	9269.8	8847.8	8537.0	7430.7
17.5°	9278.4	9304.0	9398.1	9597.7	9885.7	10188.0	10296.3	9965.6	9506.5	9135.8	7730.1
20°	9352.5	9386.7	9520.7	9783.1	10119.5	10558.6	10917.9	10744.0	10242.1	9831.5	8075.1
22.5°	9472.3	9500.8	9614.8	9894.3	10296.3	10846.6	11539.5	11502.5	11060.5	10530.1	8454.3
25°	9797.3	9843.0	9900.0	10068.2	10456.0	11140.3	12055.6	12312.2	11853.2	11260.1	8802.2
27.5°	10410.4	10447.4	10444.6	10467.4	10687.0	11394.1	12503.3	13113.5	12640.2	11998.6	9138.7
30°	11109.0	11123.2	11134.6	11083.3	11131.8	11653.6	12913.9	13906.2	13432.8	12757.1	9432.4
32.5°	11958.7	11987.2	11890.2	11759.1	11719.2	12038.5	13253.2	14698.8	14370.9	13526.9	9723.2
35°	12962.4	13036.5	12839.7	12608.8	12446.3	12591.7	13709.4	15508.6	15331.9	14510.7	10108.1
37.5°	14108.6	14199.9	14017.4	13564.0	13333.0	13373.0	14305.4	16509.5	16546.5	15631.2	10681.3
40°	15046.7	15166.5	15172.2	14530.6	14179.9	14225.5	15061.0	17587.3	18012.1	17017.0	11357.0
42.5°	15665.5	15782.4	15905.0	15528.6	15160.8	15420.2	15942.0	18756.4	19660.2	18699.3	12300.8
45°	16344.1	16449.6	16518.0	16346.9	16141.6	16814.6	17005.6	19999.6	21416.7	20578.4	13333.0
47.5°	17131.1	17248.0	17313.6	17151.0	17074.0	18037.8	18151.9	21160.1	23292.9	22403.3	14473.6
50°	18180.4	18268.8	18234.6	18131.9	18114.8	18975.9	19252.5	22246.4	24841.2	24367.9	15656.9
52.5°	19486.3	19591.8	19628.9	19483.5	19417.9	19646.0	20139.3	23235.9	26249.8	26055.9	16920.1
55°	20276.1	20444.4	21008.9	21237.1	21393.9	20512.8	21094.5	24327.9	27512.9	27835.1	18277.3
57.5°	19263.9	19480.6	20743.8	21884.3	23358.5	22679.8	22448.9	25468.5	28776.1	29560.2	19902.6
60°	16794.6	16843.1	18471.2	20572.7	23538.1	25465.6	25274.6	27282.0	30144.8	31299.6	22044.0
62.5°	11650.7	11753.4	13678.1	17031.3	21319.7	26469.3	30082.0	30412.8	32106.5	33902.9	25183.4
65°	6007.9	5873.8	7627.4	10704.1	16073.2	24085.6	33977.0	36169.7	36360.8	37974.6	29603.0
67.5°	3698.2	3758.1	4579.3	6250.2	9503.6	17504.6	33569.3	43204.1	42197.5	42973.1	33706.1
70°	2777.2	2851.4	3415.9	4277.1	5794.0	10008.3	26996.8	44909.2	46314.9	46115.3	34955.0
71°	2415.1	2492.1	3079.5	3892.1	4867.3	7724.4	22745.4	43124.2	46457.5	46423.3	34484.5
72.5°	2058.7	2107.2	2566.2	3296.2	4103.1	5414.8	17088.3	38676.1	44475.8	45613.5	32805.1
75°	1616.7	1653.8	1859.1	2514.9	3230.6	3324.7	9170.0	28995.6	36529.0	38696.0	27310.5
77.5°	1317.3	1343.0	1448.5	1867.7	2492.1	2355.2	4810.3	18873.3	22885.1	25066.5	16087.5
80°	1046.5	1075.0	1137.7	1266.0	1867.7	1679.5	2295.4	9563.5	11054.8	11032.0	6421.3
82.5°	812.6	821.2	895.3	929.5	1277.4	1191.9	1243.2	4049.0	4485.2	4633.5	2318.2
85°	513.2	538.9	792.7	712.8	764.2	698.6	613.0	1608.2	1981.7	1953.2	926.7
87.5°	156.8	165.4	268.0	302.2	339.3	305.1	225.3	473.3	578.8	627.3	231.0
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°	6367.1	6367.1	6367.1	6367.1	6367.1	6367.1	6367.1	6367.1	6367.1	6367.1	6367.1
2.5°	6404.2	6372.8	6261.6	6170.4	6084.8	5990.7	5910.9	5888.1	5868.1	5859.6	5856.7
5°	6464.1	6370.0	6150.4	5970.8	5828.2	5697.1	5614.4	5577.3	5540.2	5540.2	5551.6
7.5°	6549.6	6378.5	6039.2	5771.2	5591.5	5468.9	5409.1	5403.4	5411.9	5420.5	5423.3
10°	6643.7	6372.8	5876.7	5543.1	5383.4	5326.4	5329.2	5377.7	5423.3	5457.5	5463.2
12.5°	6735.0	6338.6	5685.6	5329.2	5226.6	5238.0	5317.8	5426.2	5514.6	5563.0	5565.9
15°	6837.6	6284.4	5454.7	5126.8	5092.6	5181.0	5329.2	5494.6	5628.6	5708.5	5717.0
17.5°	6923.1	6193.2	5212.3	4930.0	4972.8	5135.3	5340.6	5554.5	5717.0	5816.8	5833.9
20°	7020.1	6076.3	4961.4	4741.8	4864.4	5084.0	5317.8	5548.8	5717.0	5814.0	5836.8
22.5°	7097.1	5910.9	4721.9	4587.9	4767.5	5021.3	5240.8	5426.2	5563.0	5614.4	5648.6
25°	7128.4	5702.8	4496.6	4462.4	4690.5	4918.6	5066.9	5172.4	5215.2	5209.5	5223.7
27.5°	7111.3	5463.2	4302.7	4362.6	4593.6	4758.9	4833.1	4824.5	4747.5	4676.3	4710.5
30°	7040.0	5178.1	4140.2	4260.0	4468.1	4559.4	4547.9	4436.7	4291.3	4157.3	4165.9
32.5°	6911.7	4870.2	3989.1	4143.1	4291.3	4331.2	4254.3	4108.8	3900.7	3726.7	3701.1
35°	6803.4	4576.5	3855.1	4009.0	4114.5	4094.6	4020.4	3832.3	3644.1	3490.1	3464.4
37.5°	6786.3	4325.5	3726.7	3857.9	3917.8	3889.3	3798.0	3638.4	3569.9	3453.0	3438.8
40°	6877.5	4148.8	3595.6	3698.2	3726.7	3703.9	3604.1	3512.9	3575.6	3547.1	3547.1
42.5°	7125.6	4054.7	3478.7	3538.6	3561.4	3578.5	3507.2	3430.2	3507.2	3376.0	3333.3
45°	7519.1	4057.5	3373.2	3381.7	3450.2	3510.0	3461.6	3347.5	3307.6	3045.3	2993.9
47.5°	8097.9	4154.5	3287.6	3233.5	3356.1	3455.9	3387.4	3222.1	3045.3	2871.3	2840.0
50°	8773.7	4328.4	3210.7	3079.5	3230.6	3387.4	3336.1	3142.2	2959.7	2854.2	2834.3
52.5°	9523.6	4547.9	3116.6	2908.4	3076.6	3356.1	3347.5	3130.8	2879.9	2808.6	2791.5
55°	10450.3	4764.7	2999.6	2708.8	2939.8	3330.4	3316.2	3036.7	2862.8	2811.5	2805.8
57.5°	11528.1	5078.3	2831.4	2506.4	2782.9	3224.9	3193.5	2979.7	2805.8	2768.7	2765.8
60°	13264.6	5565.9	2591.9	2321.0	2623.3	3039.6	3079.5	2882.7	2714.5	2706.0	2703.1
62.5°	15548.6	6250.2	2343.8	2130.0	2437.9	2800.1	2914.1	2751.6	2617.6	2660.3	2666.0
65°	18702.2	6826.2	2087.2	1967.4	2232.6	2569.1	2757.3	2629.0	2509.2	2591.9	2591.9
67.5°	20758.0	6837.6	1853.4	1799.2	2024.5	2375.2	2591.9	2483.5	2369.5	2509.2	2514.9
70°	20330.3	5990.7	1659.5	1622.4	1822.0	2167.0	2409.4	2323.9	2192.7	2318.2	2272.5
71°	19640.3	5520.3	1582.5	1554.0	1742.2	2067.2	2323.9	2252.6	2121.4	2204.1	2178.5
72.5°	18539.7	4793.2	1457.1	1462.8	1622.4	1941.8	2204.1	2130.0	1998.8	2044.4	2035.9
75°	15671.2	4185.8	1246.1	1271.7	1394.3	1727.9	1964.6	1907.6	1773.6	1773.6	1765.0
77.5°	9797.3	2925.5	1035.0	1049.3	1183.3	1479.9	1688.0	1639.5	1511.2	1468.5	1457.1
80°	3655.5	1511.2	809.8	826.9	909.6	1166.2	1397.2	1351.6	1220.4	1171.9	1126.3
82.5°	1382.9	758.5	595.9	581.7	670.1	889.6	1094.9	1040.8	938.1	821.2	787.0
85°	521.8	376.4	365.0	353.6	393.5	527.5	678.6	667.2	558.9	476.2	467.6
87.5°	136.9	122.6	142.6	105.5	111.2	99.8	102.6	42.8	20.0	8.6	5.7
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)