

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: P457415

Luminaire Tested: **GALN-SA8D-730-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457415
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8D-730-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57447 lumens
Efficiency: N/A
Efficacy: 116.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

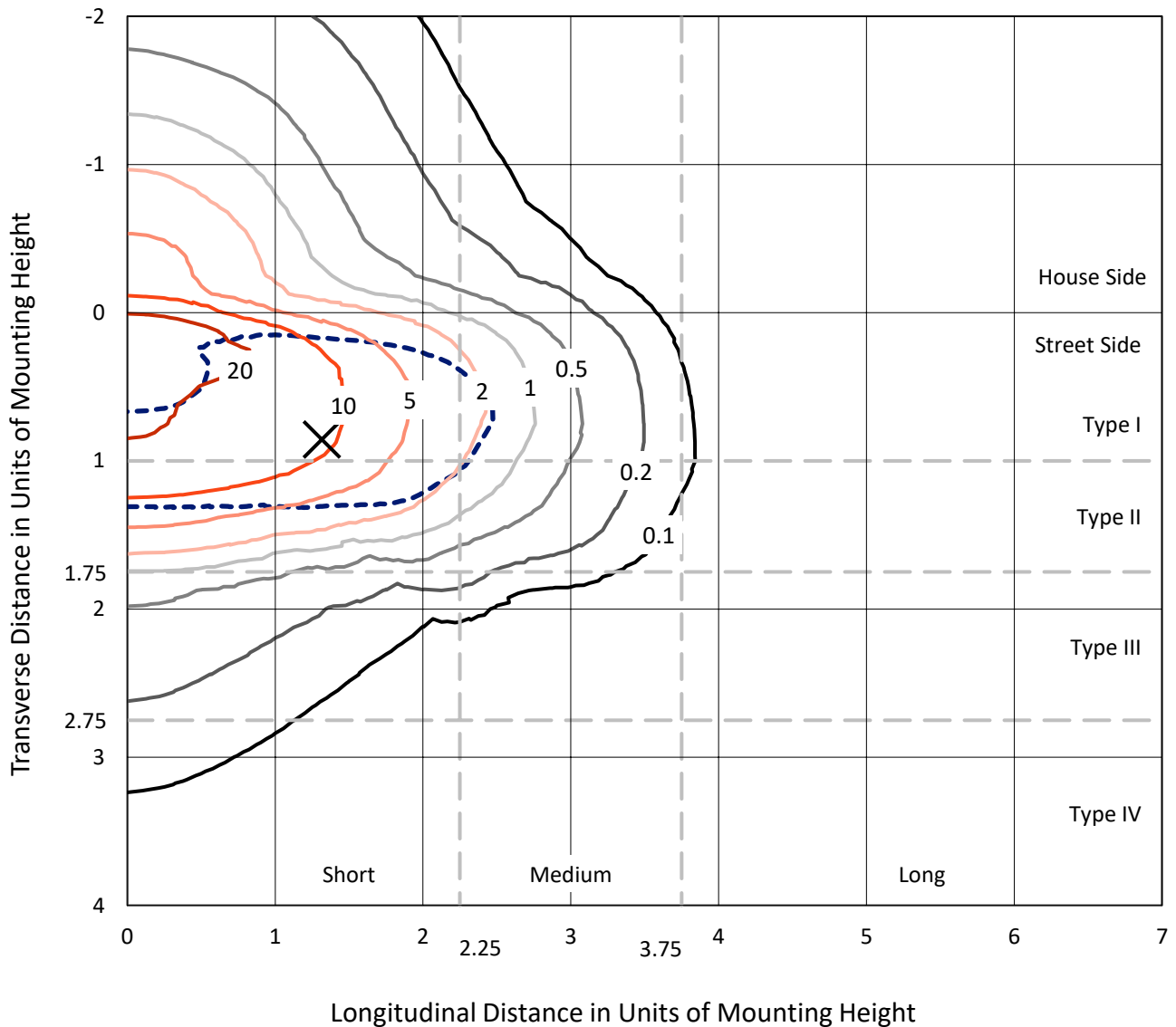
Input Watts (W): 493
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P457415
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Iso-Footcandle Lines of Horizontal Illumination

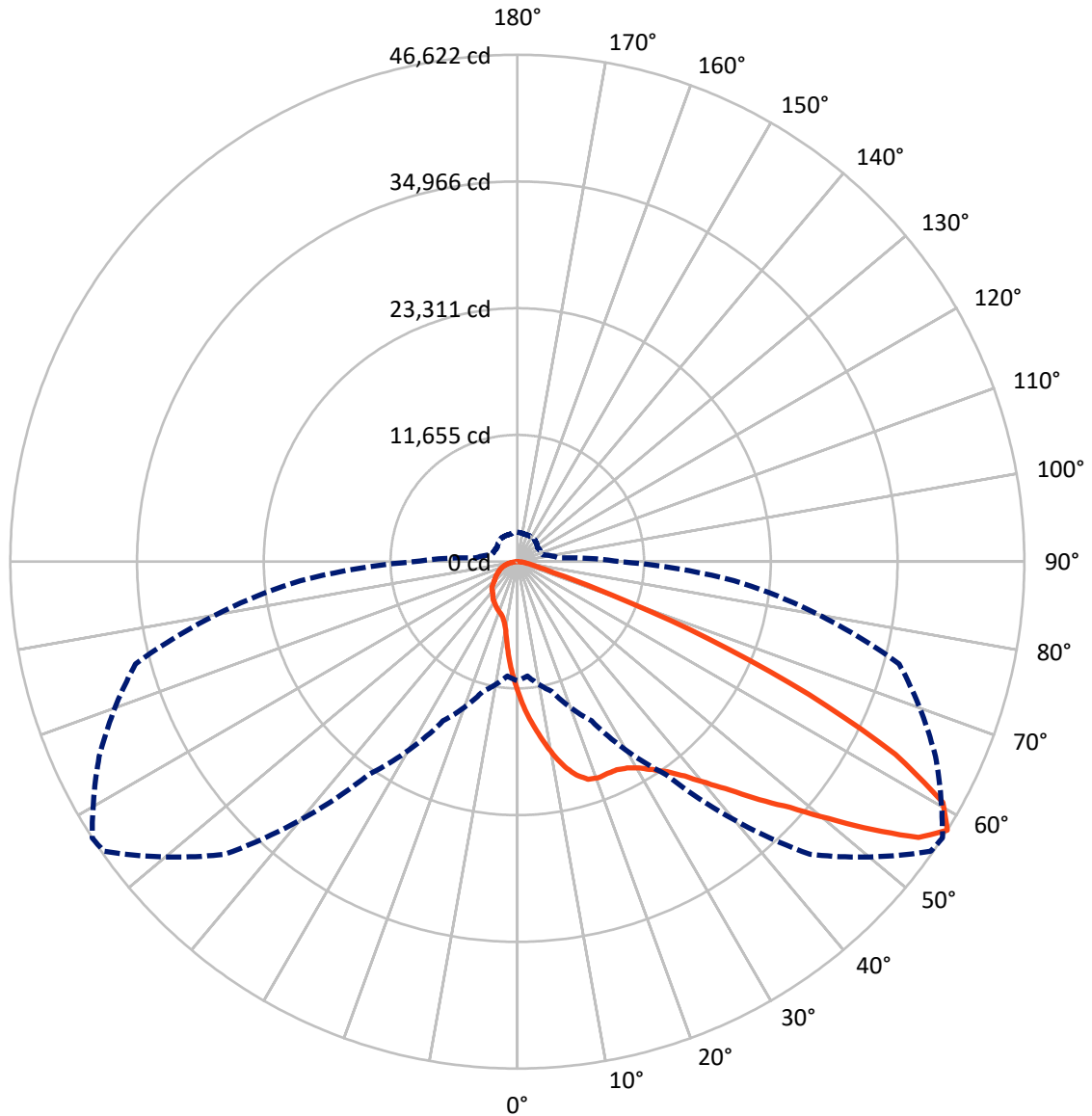
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 29.4 fc
 Type II - Short - N/A

REPORT NUMBER: P457415
CATALOG NUMBER: GALN-SA8D-730-U-AFL

Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8736.1	0.0	8736.1
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	48710.9	0.0	48710.9
	% Fixture	84.8	0.0	84.8
Total	Lumens	57447.0	0.0	57447.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1159.9	2.0
10°-20°	3418.4	6.0
20°-30°	5676.4	9.9
30°-40°	8550.2	14.9
40°-50°	12837.4	22.3
50°-60°	14389.1	25.0
60°-70°	8421.2	14.7
70°-80°	2490.9	4.3
80°-90°	503.5	0.9
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°	57447.0	100.0
0°-180°	57447.0	100.0

Coefficient of Utilization



REPORT NUMBER: P457415

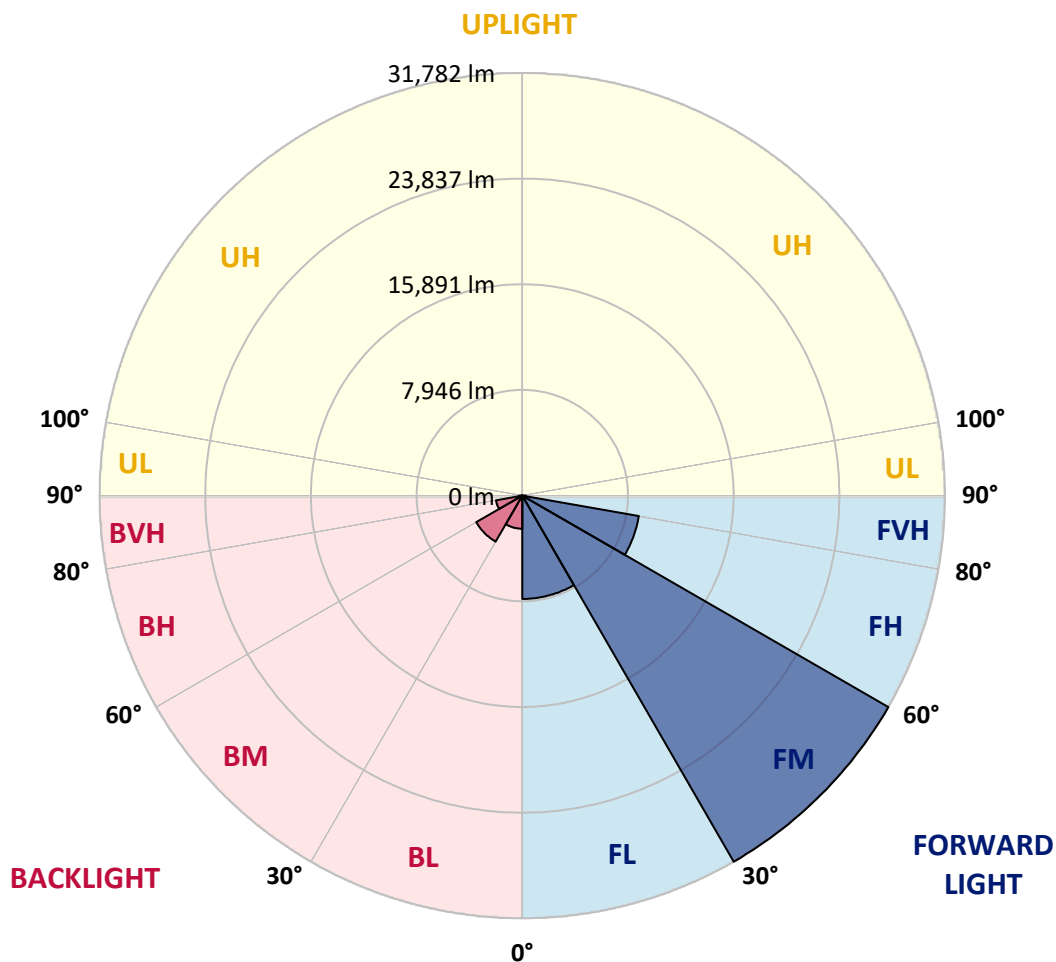
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7765.5	13.5			
FM	(30°-60°)	31782.2	55.3			
FH	(60°-80°)	8902.0	15.5			G4/12000
FVH	(80°-90°)	261.2	0.5			G3/500
BL	(0°-30°)	2489.2	4.3	B3/2500		
BM	(30°-60°)	3994.5	7.0	B3/5000		
BH	(60°-80°)	2010.1	3.5	B3/2500		G3/2500
BVH	(80°-90°)	242.3	0.4			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CATALOG NUMBER: GALN-SA8D-730-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	12069.0	12069.0	12069.0	12069.0	12069.0	12069.0	12069.0	12069.0	12069.0	12069.0	12069.0
2.5°	14996.6	14833.1	14704.1	14590.9	14443.1	14043.8	13644.4	13638.1	13320.5	12829.9	12326.8
5°	17439.9	17219.8	17248.1	16895.9	16543.7	15965.1	15119.2	15075.2	14399.1	13480.9	12546.9
7.5°	19031.1	19034.2	18946.2	18744.9	18364.4	17707.2	16748.1	16531.1	15590.9	14197.8	12798.5
10°	18949.3	19034.2	19182.0	19355.0	19471.3	19147.4	18273.2	18009.1	16785.9	15065.8	13078.4
12.5°	17861.3	17993.4	18204.1	18638.0	19339.3	19873.8	19575.1	19361.3	18169.5	15930.5	13386.5
15°	17182.1	17260.7	17377.0	17669.5	18424.2	19704.0	20477.6	20364.4	19474.5	16908.5	13732.4
17.5°	16974.5	17053.1	17090.9	17270.1	17807.8	19119.1	20832.9	21034.2	20631.7	17807.8	14081.5
20°	17182.1	17219.8	17219.8	17326.7	17748.1	18776.4	20817.2	21222.9	21581.4	18886.4	14408.5
22.5°	17726.1	17741.8	17719.8	17757.5	18072.0	18870.7	20669.4	21172.6	22348.6	19801.5	14663.2
25°	18609.7	18634.9	18490.2	18402.2	18631.7	19285.8	20751.2	21213.4	22949.3	20675.7	14833.1
27.5°	19612.8	19644.3	19468.2	19263.8	19370.7	19798.4	21071.9	21487.0	23398.9	21537.3	14940.0
30°	20842.4	20855.0	20559.4	20314.1	20244.9	20562.5	21619.1	22005.9	23958.7	22553.0	15100.3
32.5°	22100.2	22194.6	21814.1	21468.2	21351.8	21449.3	22427.3	22801.5	24625.3	23644.2	15358.2
35°	23810.9	23826.6	23370.6	22949.3	22565.6	22691.4	23461.8	23732.3	25546.7	24905.2	15723.0
37.5°	25946.1	26090.7	25461.8	24675.6	24204.0	24021.6	24713.4	25009.0	26839.1	26452.3	16273.3
40°	28317.1	28370.5	27832.8	27342.3	26480.6	25952.3	26430.3	26751.1	28433.4	28298.2	16911.6
42.5°	29807.6	29924.0	29964.8	29914.5	29266.7	28380.0	28562.4	28713.3	30320.2	30030.9	17565.7
45°	30310.8	30483.7	31068.6	32307.6	32376.8	31502.6	31078.0	31222.7	32376.8	31779.3	18191.5
47.5°	29477.4	29773.0	30851.6	33392.5	35294.9	35361.0	34081.1	33763.5	34250.9	33228.9	18644.3
50°	27323.4	27386.3	29037.2	32716.4	36662.8	39049.6	37725.7	37134.5	36030.8	34301.2	18955.6
52.5°	23990.1	24062.4	25446.1	29574.9	35820.1	41628.2	41989.8	40933.2	37838.9	35134.6	19160.0
55°	17807.8	18226.1	19748.1	23738.6	31826.5	41386.0	45379.7	44779.0	40024.4	35794.9	19480.8
57.5°	10949.5	10565.8	12370.8	16150.6	23936.7	38059.0	46426.8	46621.8	42430.0	36348.4	20018.5
60°	5037.6	5113.1	5858.4	8330.0	14590.9	29773.0	43728.7	44961.4	43760.2	36329.5	20153.7
62.5°	3471.6	3402.5	3213.8	3657.2	6654.0	18829.8	36936.4	39024.4	41093.6	35200.6	19616.0
65°	3103.7	3034.5	2669.8	2547.1	3056.5	8207.4	26851.7	29486.9	34600.0	32351.6	18276.4
67.5°	2899.3	2805.0	2427.6	2188.6	2182.3	3267.2	15833.0	19005.9	25663.0	27351.7	15836.2
70°	2685.5	2610.0	2235.8	1971.7	1858.5	2053.4	6959.0	9109.9	16663.2	19710.3	12336.2
72.5°	2471.7	2383.6	2047.1	1764.1	1616.3	1537.7	2666.6	3468.5	9414.9	11817.4	7562.8
75°	2160.3	2116.3	1830.2	1597.5	1437.1	1242.1	1691.8	1930.8	4503.1	5427.6	3795.5
77.5°	1889.9	1842.7	1625.8	1396.2	1279.9	1009.4	1201.2	1311.3	1899.3	2201.2	1713.8
80°	1383.6	1430.8	1371.0	1232.7	1141.5	792.4	808.2	899.4	1128.9	1248.4	1047.2
82.5°	877.3	965.4	1056.6	949.7	864.8	625.8	559.7	594.3	770.4	817.6	465.4
85°	367.9	374.2	613.2	578.6	493.7	371.1	336.5	355.3	411.9	430.8	217.0
87.5°	141.5	138.4	217.0	201.3	154.1	106.9	106.9	119.5	163.5	150.9	69.2
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°	12069.0	12069.0	12069.0	12069.0	12069.0	12069.0	12069.0	12069.0	12069.0	12069.0	12069.0
2.5°	12109.8	11886.6	11443.2	10892.9	10490.4	10037.5	9638.2	9352.0	9245.1	9194.8	9100.5
5°	12100.4	11660.2	10741.9	9779.7	9006.1	8213.7	7543.9	7109.9	7072.2	6782.9	6754.6
7.5°	12103.5	11430.6	9968.4	8553.3	7374.1	6562.8	6009.3	5864.7	5691.7	5647.7	5669.7
10°	12113.0	11138.2	9138.2	7339.5	6198.0	5666.6	5459.0	5402.4	5408.7	5427.6	5430.7
12.5°	12125.6	10855.1	8276.6	6418.1	5537.6	5317.5	5295.5	5345.8	5399.3	5440.2	5449.6
15°	12141.3	10531.3	7437.0	5676.0	5207.5	5188.6	5260.9	5345.8	5421.3	5481.0	5490.5
17.5°	12122.4	10153.9	6732.6	5220.0	5025.1	5116.3	5235.8	5342.7	5411.8	5468.5	5474.7
20°	12078.4	9732.5	6053.3	4899.3	4911.9	5059.7	5188.6	5289.2	5364.7	5393.0	5415.0
22.5°	11908.6	9229.4	5462.2	4650.9	4776.6	4981.0	5135.1	5194.9	5110.0	5050.2	5065.9
25°	11619.3	8575.3	4911.9	4449.6	4654.0	4871.0	5028.2	4883.6	4814.4	4789.2	4801.8
27.5°	11257.7	7858.3	4496.8	4238.9	4496.8	4748.3	4704.3	4679.2	4647.7	4606.8	4616.3
30°	10867.7	7157.1	4144.6	4075.4	4327.0	4471.6	4490.5	4531.4	4496.8	4433.9	4459.0
32.5°	10506.1	6496.7	3877.3	3937.0	4207.5	4185.5	4327.0	4374.1	4213.8	4003.1	4012.5
35°	10197.9	5883.5	3676.0	3801.8	4003.1	4012.5	4154.0	3990.5	3817.5	3716.9	3723.2
37.5°	9965.2	5405.6	3544.0	3685.5	3742.1	3861.6	3786.1	3701.2	3679.2	3610.0	3613.1
40°	9826.9	4987.3	3459.1	3594.3	3584.8	3666.6	3424.5	3509.4	3540.8	3518.8	3521.9
42.5°	9688.5	4691.7	3371.0	3468.5	3465.3	3305.0	3251.5	3323.8	3405.6	3415.0	3408.7
45°	9578.4	4462.2	3279.8	3276.7	3339.6	3088.0	3072.3	3116.3	3232.6	3289.2	3286.1
47.5°	9455.8	4270.4	3141.5	3053.4	3072.3	2952.8	2927.6	2946.5	3088.0	3179.2	3204.3
50°	9301.7	4078.5	2968.5	2849.0	2770.4	2827.0	2833.3	2836.4	2977.9	3081.7	3103.7
52.5°	9179.1	3933.9	2770.4	2682.3	2588.0	2713.8	2761.0	2767.2	2852.1	2937.1	2952.8
55°	9251.4	3852.1	2575.4	2512.5	2427.6	2597.4	2688.6	2701.2	2720.1	2783.0	2792.4
57.5°	9468.4	3871.0	2418.2	2336.4	2273.5	2459.1	2613.2	2622.6	2610.0	2685.5	2698.1
60°	9534.4	3861.6	2301.8	2141.5	2103.7	2311.3	2503.1	2522.0	2518.8	2628.9	2650.9
62.5°	9257.7	3742.1	2185.5	1978.0	1952.8	2160.3	2349.0	2424.5	2440.2	2597.4	2625.7
65°	8606.8	3496.8	2031.4	1805.0	1805.0	2000.0	2201.2	2305.0	2349.0	2559.7	2591.1
67.5°	7748.3	3207.5	1874.2	1657.2	1650.9	1845.9	2044.0	2150.9	2220.1	2506.2	2525.1
70°	6430.7	2817.6	1679.2	1496.8	1496.8	1672.9	1852.2	1981.1	2081.7	2405.6	2405.6
72.5°	4405.6	2342.7	1443.4	1314.4	1317.6	1481.1	1663.5	1808.1	1927.6	2204.4	2210.7
75°	2786.1	1830.2	1185.5	1119.5	1132.1	1286.1	1474.8	1625.8	1864.7	2179.2	2188.6
77.5°	1481.1	1286.1	943.4	927.7	943.4	1084.9	1295.6	1503.1	1871.0	1889.9	1858.5
80°	959.1	911.9	745.3	713.8	720.1	874.2	1154.1	1427.6	1503.1	1522.0	1452.8
82.5°	522.0	578.6	528.3	496.8	496.8	682.4	984.3	1135.2	1078.6	896.2	855.3
85°	223.3	270.4	273.6	239.0	229.6	421.4	660.4	619.5	575.5	550.3	544.0
87.5°	62.9	88.0	88.0	66.0	50.3	116.4	132.1	37.7	0.0	3.1	6.3
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)