

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: P533999

Luminaire Tested: **GALN-SA9C-727-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533999
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-727-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39762 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

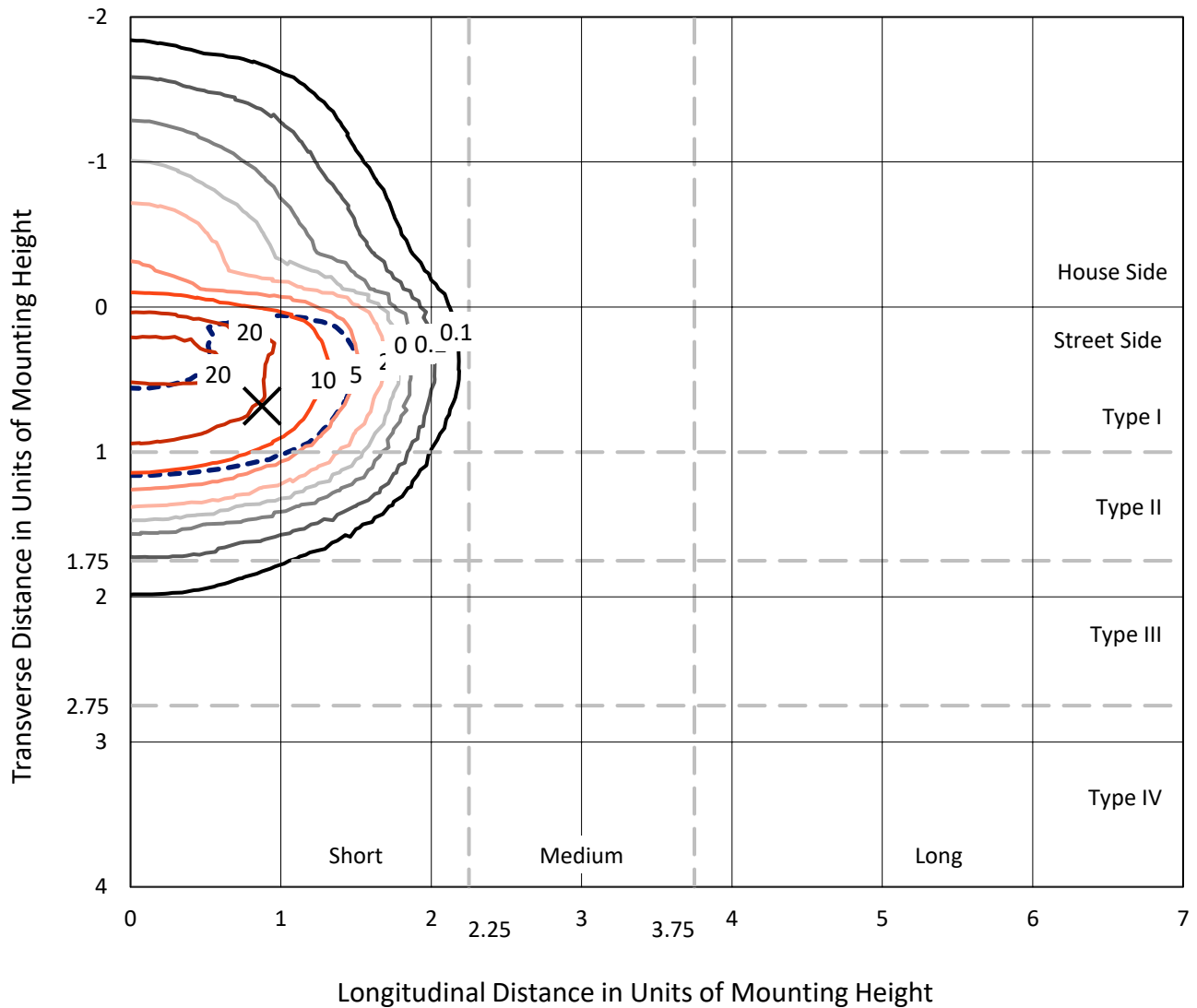
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

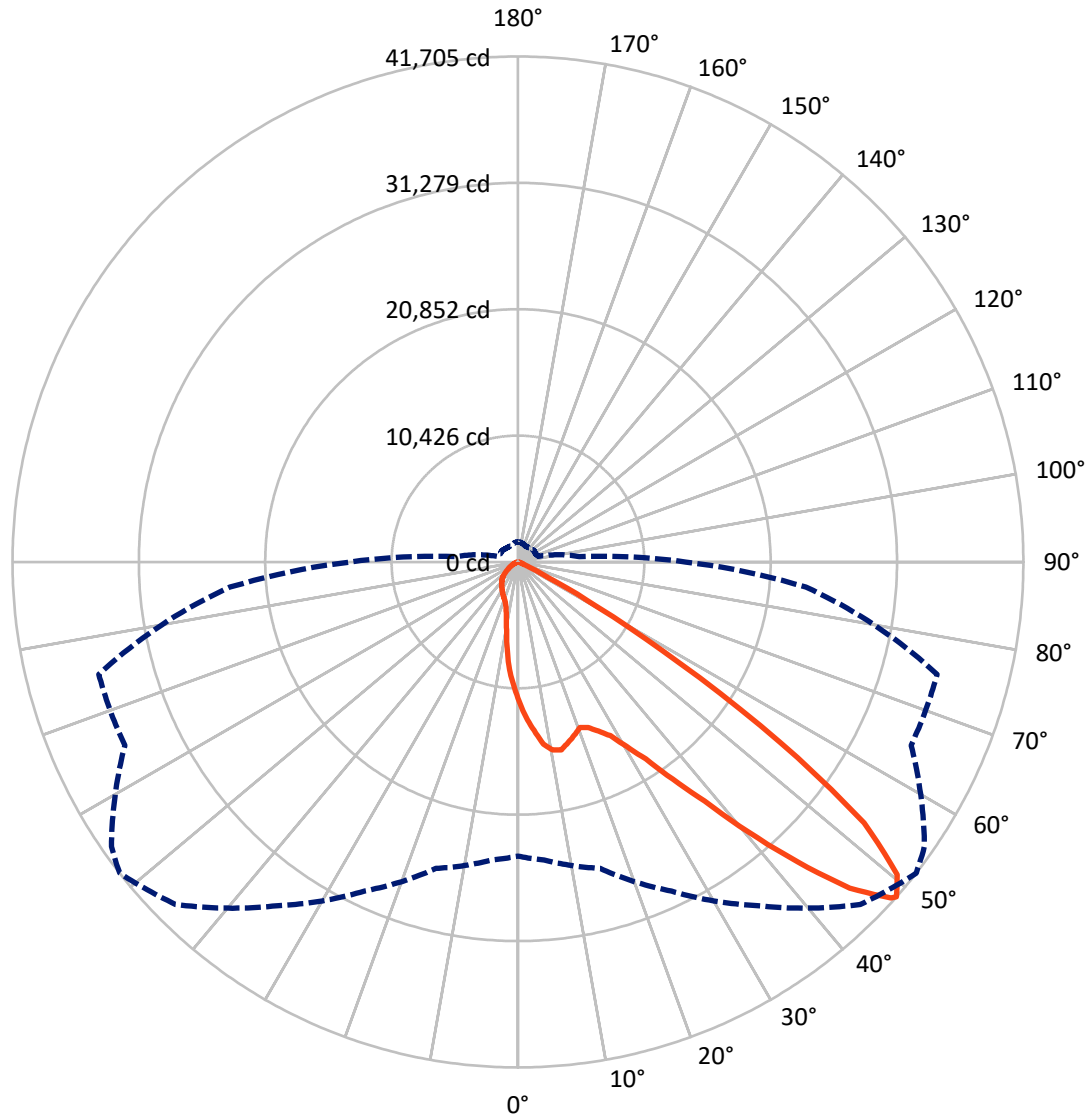
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4841.3	0.0	4841.3
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	34920.7	0.0	34920.7
	% Fixture	87.8	0.0	87.8
Total	Lumens	39762.0	0.0	39762.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1051.0	2.6
10°-20°	2746.6	6.9
20°-30°	4689.6	11.8
30°-40°	8635.9	21.7
40°-50°	13411.5	33.7
50°-60°	8071.4	20.3
60°-70°	933.5	2.3
70°-80°	180.7	0.5
80°-90°	41.8	0.1
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°	39762.0	100.0
0°-180°	39762.0	100.0

Coefficient of Utilization



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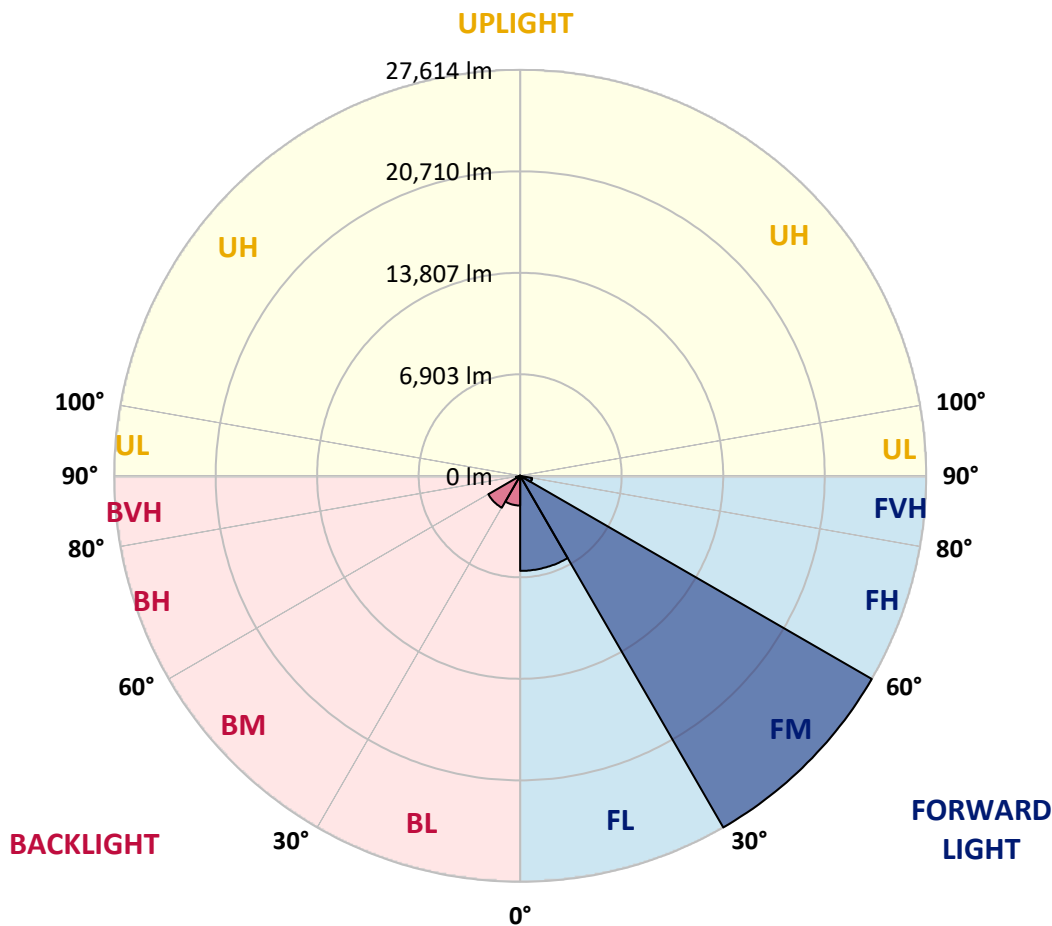
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6464.8	16.3			
FM (30°-60°)	27613.9	69.4			
FH (60°-80°)	822.1	2.1			G1/1800
FVH (80°-90°)	19.9	0.1			G1/100
BL (0°-30°)	2022.4	5.1	B3/2500		
BM (30°-60°)	2504.8	6.3	B3/5000		
BH (60°-80°)	292.2	0.7	B1/500		G1/500
BVH (80°-90°)	21.9	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	11482.6	11482.6	11482.6	11482.6	11482.6	11482.6	11482.6	11482.6	11482.6	11482.6	11482.6
2.5°	13917.1	13598.3	13627.3	13418.6	13296.9	13099.8	12833.2	12781.0	12491.2	12097.0	11697.1
5°	15169.1	15093.7	15192.3	14890.9	14902.5	14577.9	13951.9	13963.5	13296.9	12653.5	12033.3
7.5°	15250.2	15076.4	15174.9	15441.5	15598.0	15540.1	15186.5	14879.3	14247.5	13302.7	12398.4
10°	13656.2	13986.6	14091.0	14531.5	15157.5	15818.3	15777.7	15795.1	15267.6	14033.0	12711.4
12.5°	12699.8	12479.6	12833.2	13099.8	14044.6	15325.6	15911.0	16038.6	16079.1	14740.2	13024.4
15°	12265.1	12265.1	12323.1	12398.4	13082.4	14264.9	15458.9	15829.9	16705.1	15667.6	13517.1
17.5°	12537.5	12526.0	12607.1	12450.6	12705.6	13615.7	15041.6	15464.7	17406.5	16577.6	13905.5
20°	13366.4	13407.0	13354.8	12902.7	12920.1	13604.1	14577.9	15244.4	17881.8	17365.9	14421.4
22.5°	14519.9	14543.1	14247.5	13754.8	13609.9	13946.1	14844.5	15354.6	18264.4	18310.7	14577.9
25°	15853.1	15760.3	15702.4	15006.8	14566.3	14856.1	15447.3	15742.9	18502.0	19122.2	15024.2
27.5°	17702.1	17516.6	17163.0	16542.8	16218.2	15806.7	16229.8	16716.7	19180.2	20258.3	15511.1
30°	20432.2	20269.9	19580.1	18780.2	17928.2	17522.4	17655.7	17922.4	20403.2	21574.1	16154.5
32.5°	24541.8	24199.8	23202.9	21678.4	20519.1	19400.4	19365.7	19649.7	21498.7	23394.1	16919.6
35°	29068.8	28964.5	27498.0	25927.2	23684.0	21956.6	21985.6	22136.3	23597.0	25782.2	17922.4
37.5°	32077.1	32650.9	31717.7	30031.0	28147.2	25677.9	25051.9	25104.1	26477.8	28610.9	19730.8
40°	34401.4	33914.5	34024.7	33630.5	32343.7	30662.8	29277.5	29005.0	29810.7	31740.9	21527.7
42.5°	33387.1	33410.3	34088.4	35021.7	35340.5	35218.7	33804.4	33288.5	32662.5	34302.9	23237.6
45°	30523.7	31120.7	32001.7	34471.0	36638.8	38673.4	38395.1	37537.3	34633.3	36331.6	24223.0
47.5°	25956.1	25933.0	27376.2	30587.4	35404.2	40168.8	41432.4	40829.6	36030.2	36105.6	24020.1
48°	24269.4	24686.7	26176.4	29955.6	34621.7	39948.6	41704.9	40945.5	35792.6	35804.2	23846.3
50°	17939.8	17864.4	19719.2	24356.3	30923.6	37537.3	40557.2	41148.4	35786.8	34279.7	22629.0
52.5°	9477.1	9801.7	11152.2	15314.0	21863.9	30720.8	35775.2	36696.8	34523.2	31787.3	20878.5
55°	4028.5	3640.1	4677.7	6915.1	12299.9	20524.9	26246.0	28297.9	29190.5	28129.8	18264.4
57.5°	1437.5	1570.8	1808.5	2602.6	5170.4	11233.4	15650.2	17244.2	20223.5	20640.9	12444.8
60°	921.6	939.0	1014.4	1194.1	1941.8	4329.9	7425.1	8694.6	10045.1	10369.7	5808.0
62.5°	713.0	718.7	753.5	782.5	921.6	1680.9	2788.1	3303.9	3431.4	2950.4	1524.4
65°	597.0	602.8	614.4	614.4	655.0	788.3	973.8	1072.3	1043.3	1031.8	863.7
67.5°	457.9	469.5	492.7	492.7	515.9	481.1	539.1	573.8	649.2	788.3	736.1
70°	359.4	365.2	382.6	394.2	394.2	347.8	388.4	423.1	475.3	585.4	579.6
72.5°	278.2	289.8	301.4	301.4	284.0	237.7	278.2	307.2	342.0	405.7	394.2
75°	214.5	214.5	220.3	179.7	139.1	121.7	168.1	202.9	255.0	266.6	220.3
77.5°	58.0	63.8	58.0	52.2	58.0	86.9	110.1	127.5	162.3	162.3	144.9
80°	0.0	5.8	17.4	34.8	58.0	81.1	98.5	110.1	127.5	139.1	133.3
82.5°	0.0	5.8	17.4	34.8	52.2	63.8	86.9	92.7	104.3	121.7	121.7
85°	0.0	5.8	11.6	23.2	34.8	40.6	40.6	34.8	34.8	29.0	23.2
87.5°	0.0	0.0	5.8	11.6	11.6	17.4	17.4	17.4	17.4	17.4	17.4
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°	11482.6	11482.6	11482.6	11482.6	11482.6	11482.6	11482.6	11482.6	11482.6	11482.6	11482.6
2.5°	11540.6	11360.9	11088.5	10659.5	10248.0	9981.3	9726.3	9442.3	9285.8	9274.2	9187.2
5°	11679.7	11273.9	10624.7	9888.6	9100.3	8422.1	7738.2	7291.8	6891.9	6671.6	6631.0
7.5°	11755.0	11227.6	10178.4	8943.8	7599.0	6491.9	5726.8	5164.6	4944.3	4782.0	4776.2
10°	11911.5	11146.4	9511.8	7691.8	6028.2	4909.5	4382.1	4127.0	4005.3	3958.9	3889.4
12.5°	12027.5	10995.7	8827.9	6405.0	4764.6	4069.1	3837.2	3779.2	3785.0	3808.2	3779.2
15°	12189.8	10862.4	7906.2	5257.3	3999.5	3663.3	3663.3	3674.9	3756.0	3767.6	3761.8
17.5°	12178.2	10601.6	6955.6	4329.9	3535.8	3489.4	3506.8	3616.9	3669.1	3686.5	3645.9
20°	12317.3	10358.1	5976.1	3698.1	3274.9	3344.5	3460.4	3489.4	3553.2	3564.8	3518.4
22.5°	12276.7	9749.5	5066.0	3199.6	3077.9	3211.2	3327.1	3361.9	3344.5	3309.7	3303.9
25°	12201.4	9227.8	4231.3	2869.2	2933.0	3077.9	3188.0	3124.2	3089.5	3095.3	3101.1
27.5°	12068.0	8567.0	3541.6	2637.3	2735.9	2950.4	2944.6	2921.4	2956.1	2927.2	2956.1
30°	12044.9	7906.2	2973.5	2428.7	2591.0	2747.5	2759.1	2799.6	2840.2	2788.1	2840.2
32.5°	12079.6	7181.7	2567.8	2301.2	2504.0	2509.8	2637.3	2677.9	2648.9	2533.0	2544.6
35°	12346.3	6625.2	2272.2	2231.6	2364.9	2370.7	2492.4	2440.3	2312.8	2243.2	2283.8
37.5°	12908.5	6161.5	2133.1	2167.8	2179.4	2254.8	2260.6	2156.2	2167.8	2162.0	2185.2
40°	13627.3	5808.0	2034.5	2109.9	2098.3	2150.5	1941.8	1999.7	2051.9	2069.3	2080.9
42.5°	14120.0	5552.9	1970.8	2017.1	1994.0	1901.2	1785.3	1843.2	1883.8	1947.6	1959.2
45°	14340.2	5350.0	1895.4	1854.8	1854.8	1686.7	1640.4	1652.0	1744.7	1814.3	1802.7
47.5°	13980.8	5153.0	1762.1	1640.4	1680.9	1541.8	1489.7	1489.7	1588.2	1675.2	1657.8
48°	13841.7	5071.8	1767.9	1594.0	1623.0	1518.6	1466.5	1454.9	1565.0	1646.2	1646.2
50°	13152.0	4770.4	1617.2	1466.5	1408.5	1396.9	1362.1	1373.7	1443.3	1518.6	1518.6
52.5°	11807.2	4121.2	1367.9	1257.8	1153.5	1223.0	1240.4	1217.2	1252.0	1321.6	1315.8
55°	9853.8	3164.8	1095.5	1043.3	962.2	1037.5	1072.3	1043.3	1008.6	1060.7	1060.7
57.5°	6312.2	1704.1	875.3	886.8	805.7	881.0	910.0	840.5	776.7	817.3	811.5
60°	2846.0	1020.2	718.7	701.4	649.2	736.1	782.5	701.4	614.4	643.4	672.4
62.5°	1066.5	724.5	544.9	533.3	521.7	602.8	626.0	562.2	475.3	492.7	498.5
65°	782.5	637.6	434.7	394.2	417.3	475.3	463.7	399.9	342.0	342.0	353.6
67.5°	666.6	556.5	353.6	307.2	307.2	313.0	289.8	255.0	237.7	249.2	260.8
70°	521.7	440.5	278.2	237.7	214.5	191.3	168.1	162.3	144.9	162.3	156.5
72.5°	336.2	295.6	214.5	179.7	162.3	133.3	110.1	104.3	86.9	81.1	81.1
75°	179.7	179.7	168.1	144.9	127.5	104.3	86.9	69.6	46.4	34.8	34.8
77.5°	127.5	139.1	150.7	139.1	115.9	86.9	69.6	46.4	23.2	11.6	11.6
80°	121.7	139.1	150.7	133.3	115.9	86.9	63.8	34.8	17.4	5.8	5.8
82.5°	110.1	127.5	139.1	121.7	104.3	75.4	58.0	34.8	17.4	5.8	5.8
85°	23.2	29.0	34.8	34.8	40.6	52.2	40.6	29.0	11.6	5.8	5.8
87.5°	17.4	17.4	17.4	17.4	17.4	17.4	11.6	11.6	5.8	5.8	5.8
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)