

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: P457625

Luminaire Tested: **GALN-SA9A-727-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457625
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9A-727-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33938 lumens
Efficiency: N/A
Efficacy: 123.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

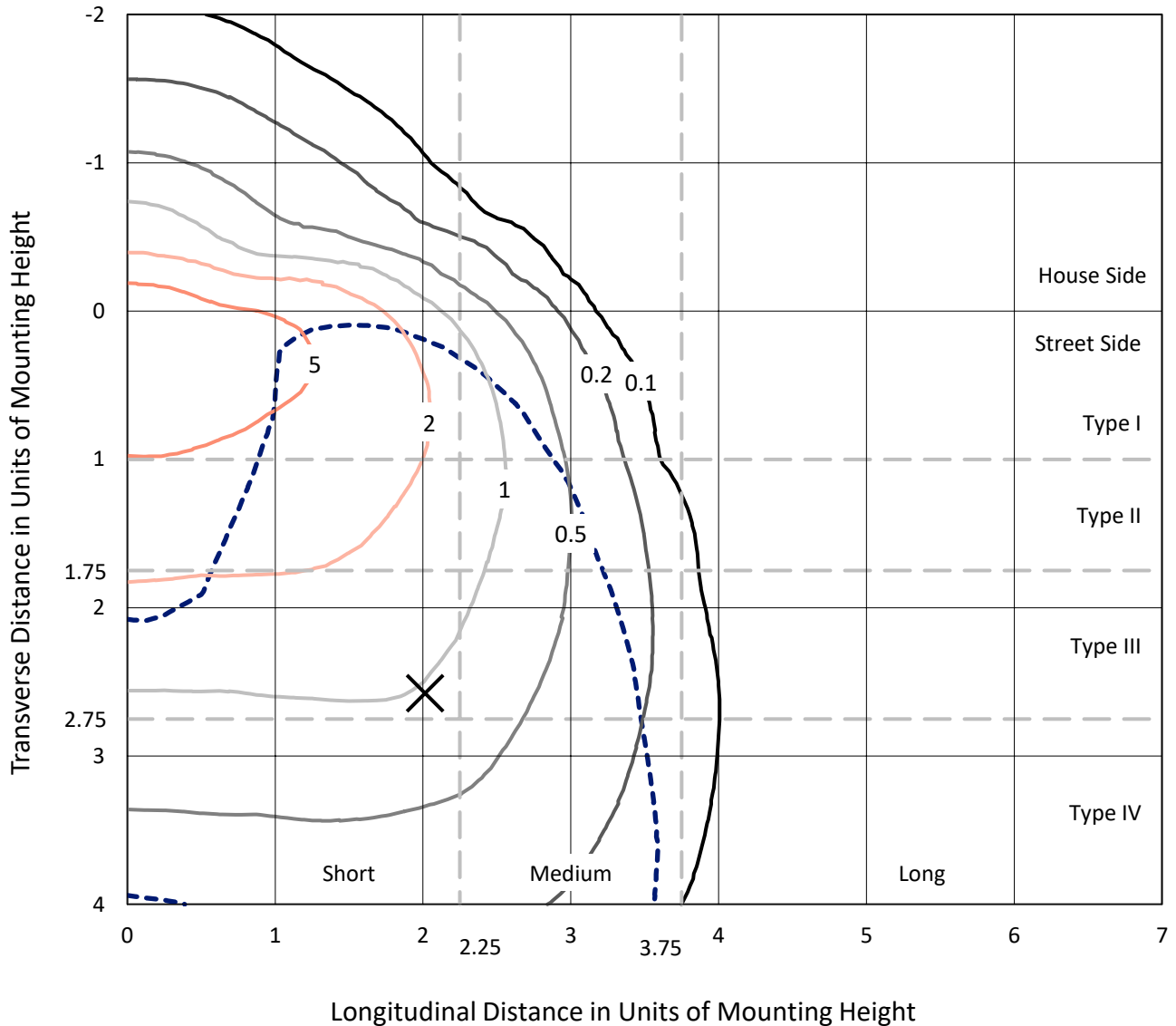
Input Watts (W): 274
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

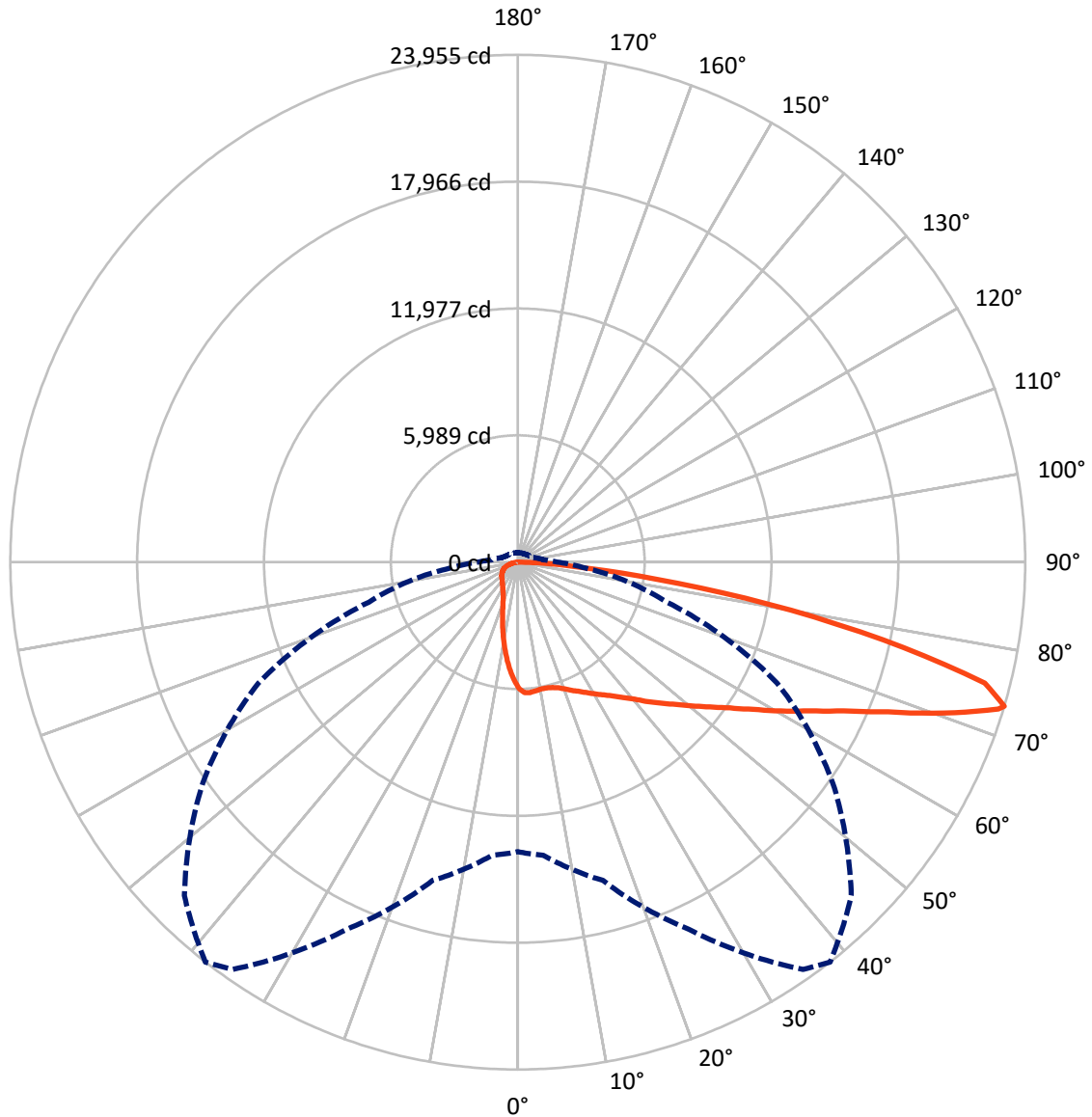
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4562.3	0.0	4562.3
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	29375.7	0.0	29375.7
	% Fixture	86.6	0.0	86.6
Total	Lumens	33938.0	0.0	33938.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	520.4	1.5
10°-20°	1334.6	3.9
20°-30°	2078.2	6.1
30°-40°	3048.3	9.0
40°-50°	4521.8	13.3
50°-60°	6406.4	18.9
60°-70°	8126.8	23.9
70°-80°	6764.9	19.9
80°-90°	1136.6	3.3
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°	33938.0	100.0
0°-180°	33938.0	100.0

Coefficient of Utilization



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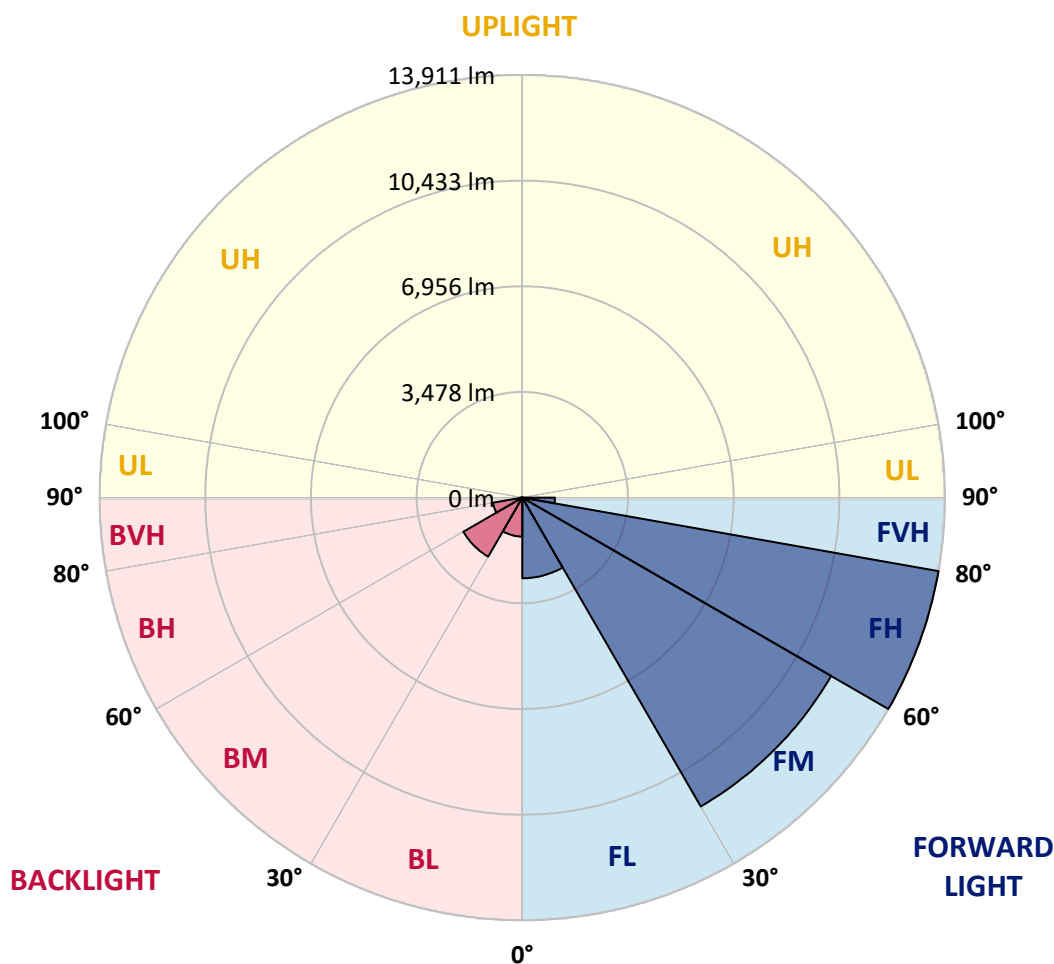
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2653.0	7.8			
FM	(30°-60°)	11736.7	34.6			
FH	(60°-80°)	13911.0	41.0			G5
FVH	(80°-90°)	1075.0	3.2			G5
BL	(0°-30°)	1280.2	3.8	B3/2500		
BM	(30°-60°)	2239.8	6.6	B2/2500		
BH	(60°-80°)	980.6	2.9	B2/1000		G2/1000
BVH	(80°-90°)	61.6	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	5962.3	5962.3	5962.3	5962.3	5962.3	5962.3	5962.3	5962.3	5962.3	5962.3	5962.3
2.5°	6201.9	6232.6	6217.2	6196.1	6182.7	6169.3	6150.2	6094.6	6050.5	6002.6	5927.8
5°	6247.9	6267.1	6253.6	6226.8	6196.1	6182.7	6146.3	6073.5	6002.6	5922.1	5810.9
7.5°	6221.1	6228.7	6213.4	6180.8	6154.0	6129.1	6086.9	6006.4	5920.2	5822.4	5676.8
10°	6125.2	6154.0	6154.0	6127.2	6100.3	6086.9	6044.7	5968.1	5889.5	5778.3	5605.9
12.5°	6046.7	6077.3	6102.2	6094.6	6092.7	6092.7	6060.1	6002.6	5910.6	5805.2	5600.1
15°	5993.0	6029.4	6083.1	6113.7	6132.9	6138.7	6125.2	6075.4	5981.5	5858.8	5623.1
17.5°	5981.5	6025.6	6123.3	6190.4	6240.2	6238.3	6234.5	6165.5	6062.0	5935.5	5651.9
20°	6033.2	6090.7	6226.8	6332.2	6405.1	6391.6	6370.6	6280.5	6159.7	6017.9	5678.7
22.5°	6188.5	6247.9	6397.4	6512.4	6583.3	6583.3	6520.0	6401.2	6272.8	6113.7	5715.1
25°	6410.8	6476.0	6635.0	6751.9	6784.5	6759.6	6696.4	6552.6	6405.1	6251.7	5791.8
27.5°	6682.9	6761.5	6909.1	7006.8	6997.3	6978.1	6912.9	6728.9	6581.4	6441.5	5922.1
30°	7022.2	7079.7	7233.0	7256.0	7221.5	7217.7	7125.7	6941.7	6803.7	6696.4	6108.0
32.5°	7342.2	7394.0	7516.6	7526.2	7464.9	7472.6	7386.3	7217.7	7139.1	7100.8	6420.4
35°	7681.5	7708.3	7813.7	7802.2	7762.0	7756.2	7721.7	7560.7	7585.6	7654.6	6863.1
37.5°	7965.1	8018.8	8078.2	8087.8	8085.8	8105.0	8128.0	8051.4	8195.1	8411.7	7443.8
40°	8225.8	8271.8	8359.9	8390.6	8465.3	8503.7	8582.2	8584.1	8915.7	9272.2	8158.7
42.5°	8402.1	8480.7	8645.5	8701.1	8883.1	8998.1	9115.0	9239.6	9720.7	10178.7	9002.0
45°	8555.4	8658.9	8933.0	9105.4	9352.7	9492.6	9739.8	10000.5	10692.3	11292.2	9858.6
47.5°	8787.3	8879.3	9193.6	9498.3	9872.1	10033.0	10402.9	10792.0	11696.6	12354.0	10678.9
50°	9109.3	9164.9	9484.9	9981.3	10458.5	10665.5	11154.2	11715.8	12769.9	13402.3	11399.5
52.5°	9521.3	9544.3	9799.2	10460.4	11089.1	11345.9	11993.7	12649.1	13709.0	14312.7	11970.7
55°	10008.1	9969.8	10169.1	10968.3	11809.7	12145.1	12840.8	13594.0	14765.0	15048.6	12386.5
57.5°	10489.2	10429.8	10588.8	11585.4	12698.9	13103.3	13914.0	14567.6	15707.9	15736.6	12677.9
60°	10999.0	10954.9	11144.6	12309.9	13789.4	14268.6	15017.9	15577.6	16620.2	16215.8	12723.9
62.5°	11522.2	11451.3	11721.5	13124.4	15017.9	15453.0	16179.4	16650.8	17515.2	16394.0	12281.1
65°	12030.1	11997.5	12415.3	14092.3	16417.0	16911.5	17616.8	17936.8	18232.0	16125.7	11183.0
67.5°	12570.5	12635.7	13302.6	15384.0	18241.6	18862.5	19623.4	19322.5	18437.0	14855.0	9417.8
70°	13394.6	13436.8	14467.9	17076.3	20593.1	21342.5	21710.5	19815.0	17448.1	12442.1	7079.7
72.5°	13749.2	13935.1	15508.6	18852.9	23264.8	23722.8	22411.9	18716.9	14535.0	8451.9	3720.0
73°	13670.6	13892.9	15556.5	19123.2	23473.7	23954.7	22262.4	18151.5	13511.6	7279.0	3189.1
75°	12691.3	12965.3	14933.6	18897.0	23067.4	22779.9	19859.1	15470.2	9130.4	3309.9	1452.7
77.5°	10013.9	10092.5	11832.7	15259.4	18164.9	17632.1	14862.7	9668.9	3729.6	1230.4	824.1
80°	5023.2	5312.6	6669.5	8741.3	12147.0	11972.6	9381.4	4572.8	1554.3	722.5	546.2
82.5°	2416.7	2621.8	3248.5	4262.4	6711.7	6552.6	4645.7	2499.2	987.0	421.6	322.0
85°	1556.2	1709.5	2067.9	2033.4	2759.8	2635.2	2087.1	1891.6	584.5	220.4	224.2
87.5°	1027.3	1125.0	1349.2	1079.0	1004.3	908.4	921.9	1065.6	115.0	84.3	30.7
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°	5962.3	5962.3	5962.3	5962.3	5962.3	5962.3	5962.3	5962.3	5962.3	5962.3	5962.3
2.5°	5897.2	5872.3	5789.8	5709.3	5632.7	5559.9	5511.9	5448.7	5406.5	5418.0	5435.3
5°	5749.6	5694.0	5548.4	5406.5	5272.4	5113.3	4984.9	4881.4	4802.8	4774.1	4768.3
7.5°	5594.4	5500.4	5291.5	5048.1	4820.1	4622.7	4394.6	4281.5	4149.3	4103.3	4088.0
10°	5500.4	5374.0	5080.7	4741.5	4398.4	4070.7	3823.5	3622.2	3440.2	3405.7	3388.4
12.5°	5473.6	5306.9	4912.1	4475.1	4019.0	3616.5	3250.4	2986.0	2809.6	2769.4	2710.0
15°	5458.3	5251.3	4754.9	4206.8	3628.0	3137.4	2752.1	2443.6	2282.6	2175.3	2177.2
17.5°	5444.9	5188.1	4578.6	3913.6	3290.7	2725.3	2299.8	2021.9	1874.4	1816.9	1811.1
20°	5425.7	5113.3	4375.4	3605.0	2905.5	2349.7	1964.4	1757.5	1657.8	1609.9	1608.0
22.5°	5418.0	5040.5	4176.1	3290.7	2564.3	2060.3	1742.1	1596.5	1533.2	1500.6	1500.6
25°	5437.2	4988.7	3967.2	2991.7	2261.5	1813.0	1588.8	1489.1	1452.7	1435.5	1429.7
27.5°	5496.6	4965.7	3760.2	2692.7	1983.6	1644.4	1485.3	1416.3	1389.5	1376.1	1378.0
30°	5609.7	4963.8	3557.1	2397.6	1776.6	1516.0	1402.9	1355.0	1333.9	1326.2	1324.3
32.5°	5791.8	5006.0	3357.8	2154.2	1602.2	1408.7	1326.2	1291.7	1282.2	1276.4	1274.5
35°	6100.3	5124.8	3160.4	1931.9	1468.1	1312.8	1253.4	1236.2	1222.7	1228.5	1230.4
37.5°	6516.2	5329.9	2972.5	1757.5	1366.5	1241.9	1192.1	1176.8	1169.1	1174.8	1180.6
40°	7073.9	5625.0	2815.4	1617.6	1293.7	1182.5	1138.4	1125.0	1117.3	1126.9	1128.8
42.5°	7689.1	5966.2	2685.1	1508.3	1234.2	1132.7	1090.5	1075.2	1069.4	1075.2	1077.1
45°	8321.6	6362.9	2618.0	1429.7	1184.4	1096.3	1052.2	1034.9	1021.5	1017.7	1023.4
47.5°	8944.5	6707.9	2616.1	1381.8	1144.2	1063.7	1015.8	996.6	979.3	969.8	967.8
50°	9452.3	6981.9	2662.1	1360.7	1109.7	1027.3	979.3	960.2	937.2	918.0	921.9
52.5°	9835.6	7160.2	2683.1	1351.2	1090.5	988.9	941.0	923.8	896.9	872.0	872.0
55°	10082.9	7202.3	2631.4	1341.6	1075.2	948.7	896.9	881.6	854.8	829.9	829.9
57.5°	10167.2	7072.0	2445.5	1318.6	1059.8	914.2	852.9	839.4	818.4	793.4	789.6
60°	9971.7	6631.2	2119.7	1249.6	1029.2	877.8	804.9	799.2	791.5	770.4	768.5
62.5°	9218.5	5695.9	1765.1	1159.5	977.4	839.4	760.9	770.4	776.2	764.7	762.8
65°	7965.1	4624.6	1508.3	1034.9	908.4	785.8	712.9	737.9	753.2	753.2	749.4
67.5°	6460.6	3551.3	1270.7	927.6	822.2	712.9	659.3	678.5	690.0	686.1	695.7
70°	4592.0	2405.2	1034.9	804.9	712.9	630.5	590.3	590.3	582.6	578.8	578.8
72.5°	2227.0	1374.2	839.4	672.7	607.5	538.5	506.0	492.5	477.2	475.3	465.7
73°	1861.0	1232.3	801.1	647.8	582.6	525.1	488.7	467.6	458.1	450.4	448.5
75°	1132.7	935.3	668.9	546.2	496.4	452.3	419.7	400.6	391.0	385.2	383.3
77.5°	745.5	697.6	519.4	417.8	379.5	352.6	339.2	320.1	314.3	306.6	306.6
80°	555.8	532.8	371.8	295.1	272.1	249.1	245.3	241.5	226.2	216.6	212.7
82.5°	358.4	379.5	253.0	197.4	172.5	153.3	155.2	161.0	145.7	132.2	128.4
85°	254.9	274.1	153.3	90.1	72.8	63.2	70.9	63.2	65.2	51.7	42.2
87.5°	42.2	72.8	26.8	11.5	5.7	3.8	0.0	0.0	0.0	0.0	0.0
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)