

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: P532373

Luminaire Tested: **GALN-SA7D-727-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532373
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-727-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26582 lumens
Efficiency: N/A
Efficacy: 61.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

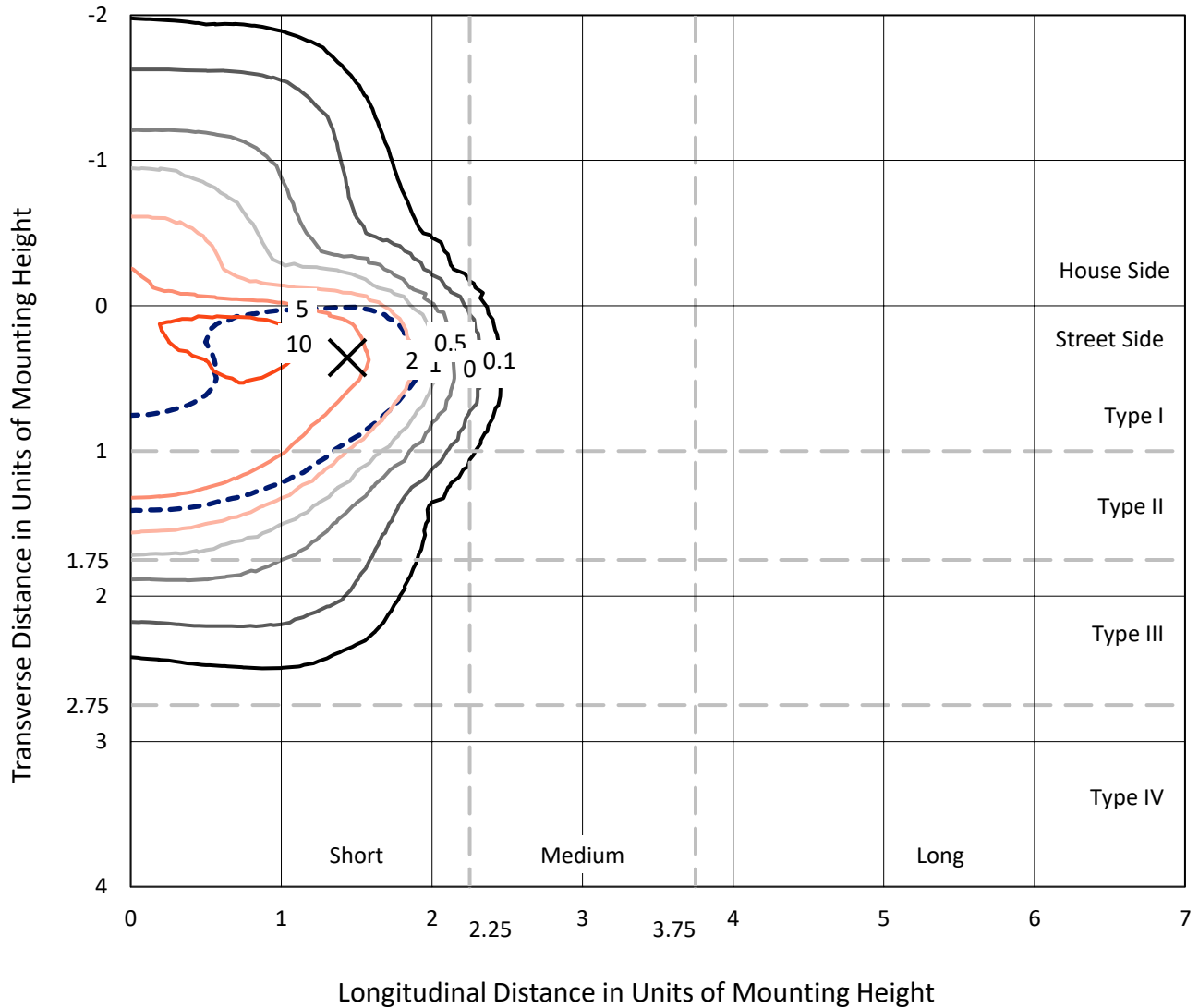
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

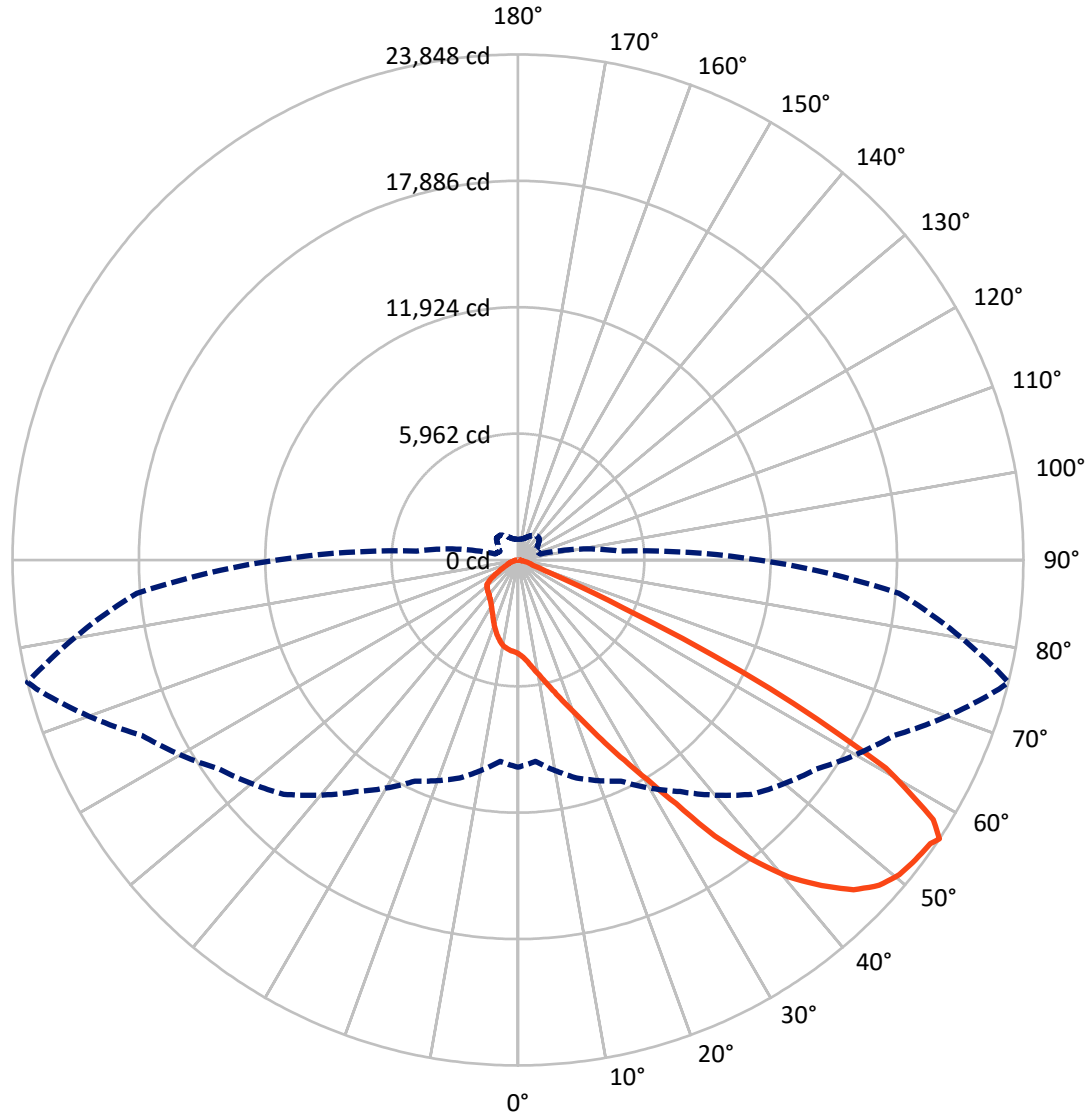
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4175.9	0.0	4175.9
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	22406.1	0.0	22406.1
	% Fixture	84.3	0.0	84.3
Total	Lumens	26582.0	0.0	26582.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	445.7	1.7
10°-20°	1431.9	5.4
20°-30°	2596.5	9.8
30°-40°	4477.7	16.8
40°-50°	7274.2	27.4
50°-60°	7667.3	28.8
60°-70°	2342.7	8.8
70°-80°	300.3	1.1
80°-90°	45.6	0.2
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°	26582.0	100.0
0°-180°	26582.0	100.0

Coefficient of Utilization

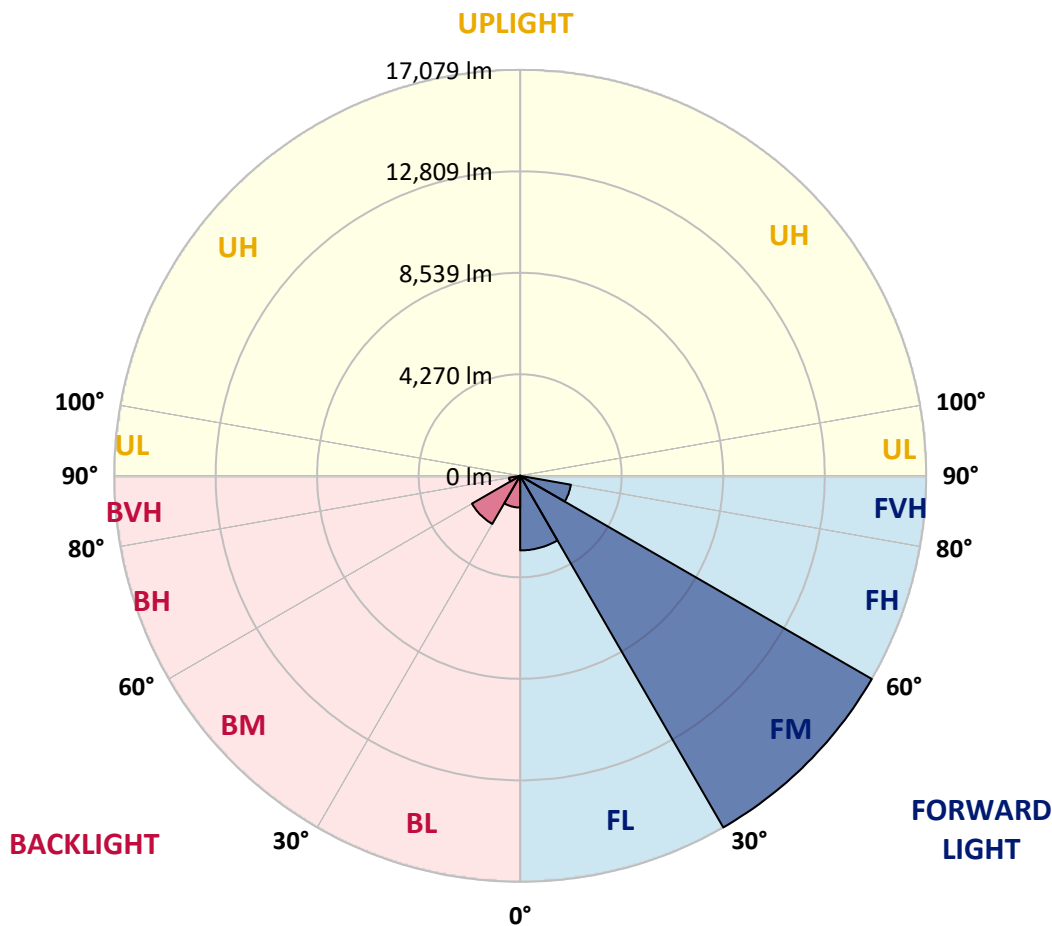


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3138.2	11.8			
FM (30°-60°)	17078.9	64.2			
FH (60°-80°)	2166.6	8.2			G2/5000
FVH (80°-90°)	22.4	0.1			G1/100
BL (0°-30°)	1335.9	5.0	B3/2500		
BM (30°-60°)	2340.4	8.8	B2/2500		
BH (60°-80°)	476.4	1.8	B1/500		G1/500
BVH (80°-90°)	23.3	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4424.6	4424.6	4424.6	4424.6	4424.6	4424.6	4424.6	4424.6	4424.6	4424.6	4424.6
2.5°	5095.9	4978.3	4983.2	4973.4	4958.7	4904.8	4743.1	4718.6	4610.8	4581.4	4483.4
5°	5708.4	5605.5	5664.3	5576.1	5492.8	5443.8	5179.2	5056.7	4885.2	4821.5	4684.3
7.5°	6090.6	6041.6	6022.0	6026.9	5948.5	5826.0	5708.4	5438.9	5208.6	5159.6	4870.5
10°	6276.8	6247.4	6276.8	6262.1	6296.4	6311.1	6105.3	5943.6	5605.5	5522.2	5071.4
12.5°	6320.9	6379.7	6404.2	6467.9	6551.2	6693.3	6678.6	6458.1	6007.3	5953.4	5380.1
15°	6428.7	6477.7	6453.2	6556.1	6712.9	6953.0	7080.4	7046.1	6561.0	6463.0	5737.8
17.5°	6526.7	6438.5	6521.8	6727.6	6884.4	7251.9	7560.6	7702.7	7163.7	7051.0	6066.1
20°	6659.0	6634.5	6619.8	6722.7	7002.0	7492.0	8104.4	8364.1	7839.8	7722.2	6536.5
22.5°	7060.8	7065.7	7055.9	6904.0	7104.9	7658.6	8579.7	9221.6	8648.3	8550.3	7070.6
25°	7590.0	7526.3	7477.3	7354.8	7330.3	7810.4	9059.9	10270.2	9618.5	9549.9	7648.8
27.5°	8148.5	8148.5	8001.5	7888.8	7732.0	8187.7	9500.9	11289.4	10789.6	10696.5	8153.4
30°	8756.1	8790.4	8770.8	8530.7	8432.7	8599.3	9951.7	12592.8	12132.2	12014.6	8986.4
32.5°	9652.8	9579.3	9662.6	9461.7	9172.6	9319.6	10662.2	13758.9	13876.5	13709.9	10079.1
35°	10838.6	10794.5	10740.6	10412.3	10069.3	10186.9	11666.7	15194.6	16066.8	15983.5	11181.6
37.5°	11901.9	11877.4	11833.3	11607.9	11211.0	11353.1	12808.4	16689.1	18203.1	17928.8	12739.8
40°	13019.0	13151.3	13009.2	12808.4	12445.8	12759.4	14150.9	17576.0	20001.4	19668.2	13930.4
42.5°	14533.1	14430.2	14493.9	14126.4	13930.4	14273.4	15498.4	18462.8	21397.9	21001.0	15194.6
45°	16145.2	16150.1	15978.6	15861.0	15351.4	15723.8	16326.5	18952.8	22510.2	22201.5	16150.1
47.5°	17179.1	17174.2	17360.4	17546.6	17022.3	16654.8	16890.0	19418.3	23083.5	22941.4	16498.0
50°	17017.4	17066.4	17306.5	18002.2	18276.6	17781.8	17419.2	19281.1	23343.1	23328.4	16796.9
52.5°	14802.6	14964.3	15366.1	16370.6	17752.4	18364.8	17972.9	19535.9	23470.5	23495.0	17242.8
55°	11269.8	11358.0	12122.4	13342.4	14871.2	16968.4	17752.4	19736.8	23568.5	23612.6	17781.8
56°	9775.3	9540.1	10642.6	11509.9	13337.5	15630.7	17193.8	19580.0	23509.7	23847.8	18051.2
57.5°	7379.3	7222.5	8114.2	9197.1	10956.2	13376.7	15459.2	18840.1	23112.9	23108.0	17664.2
60°	4488.3	4331.5	5017.5	5654.5	6639.4	8236.7	10446.6	15003.5	19540.8	19952.4	14302.8
62.5°	2670.4	2768.4	3444.6	3831.7	4150.2	4316.8	5404.6	8917.8	13038.6	13332.6	8873.7
65°	1778.7	1813.0	2322.6	2959.5	3101.6	2469.6	2200.1	3611.2	5654.5	5473.2	3660.2
67.5°	1097.6	1176.0	1558.2	2224.6	2464.7	1803.2	1043.7	1347.5	1558.2	1558.2	1058.4
70°	666.4	705.6	1038.8	1514.1	1690.5	1161.3	759.5	759.5	749.7	735.0	632.1
72.5°	318.5	343.0	529.2	779.1	793.8	612.5	588.0	641.9	627.2	622.3	524.3
75°	137.2	147.0	186.2	245.0	279.3	259.7	357.7	460.6	475.3	460.6	377.3
77.5°	44.1	49.0	68.6	88.2	93.1	112.7	151.9	191.1	220.5	205.8	186.2
80°	4.9	9.8	19.6	44.1	68.6	88.2	112.7	127.4	142.1	142.1	132.3
82.5°	4.9	4.9	19.6	39.2	63.7	83.3	107.8	122.5	142.1	147.0	137.2
85°	0.0	4.9	14.7	34.3	53.9	53.9	49.0	49.0	34.3	34.3	34.3
87.5°	0.0	0.0	4.9	4.9	4.9	9.8	9.8	9.8	9.8	9.8	9.8
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°	4424.6	4424.6	4424.6	4424.6	4424.6	4424.6	4424.6	4424.6	4424.6	4424.6	4424.6
2.5°	4463.8	4454.0	4321.7	4238.4	4194.3	4106.1	4052.2	4013.0	3983.6	3949.3	3954.2
5°	4522.6	4488.3	4267.8	4115.9	3934.6	3836.6	3753.3	3684.7	3640.6	3630.8	3611.2
7.5°	4689.2	4507.9	4174.7	3900.3	3670.0	3572.0	3498.5	3454.4	3474.0	3429.9	3464.2
10°	4816.6	4547.1	4062.0	3665.1	3434.8	3361.3	3322.1	3356.4	3405.4	3385.8	3361.3
12.5°	4973.4	4586.3	3880.7	3439.7	3224.1	3170.2	3238.8	3302.5	3400.5	3439.7	3390.7
15°	5149.8	4630.4	3650.4	3180.0	3042.8	3086.9	3204.5	3317.2	3415.2	3464.2	3493.6
17.5°	5365.4	4615.7	3425.0	2974.2	2871.3	2998.7	3140.8	3243.7	3390.7	3464.2	3444.6
20°	5566.3	4566.7	3175.1	2768.4	2773.3	2890.9	3008.5	3175.1	3253.5	3351.5	3317.2
22.5°	5757.4	4478.5	2915.4	2626.3	2626.3	2807.6	2866.4	2974.2	3042.8	3091.8	3086.9
25°	6026.9	4311.9	2699.8	2489.2	2548.0	2665.5	2714.5	2748.8	2719.4	2758.6	2763.5
27.5°	6218.0	4140.4	2523.5	2366.7	2474.5	2562.7	2548.0	2528.4	2459.8	2405.9	2440.2
30°	6423.8	3939.5	2371.6	2283.4	2342.2	2420.6	2361.8	2303.0	2195.2	2107.0	2111.9
32.5°	6717.8	3846.4	2239.3	2185.4	2263.8	2273.6	2209.9	2121.7	2013.9	1930.6	1925.7
35°	7266.6	3787.6	2126.6	2121.7	2136.4	2141.3	2077.6	1969.8	1925.7	1857.1	1881.6
37.5°	7815.3	3758.2	2048.2	2028.6	2023.7	2028.6	1955.1	1852.2	1935.5	1930.6	1940.4
40°	8516.0	3890.5	1935.5	1911.0	1915.9	1915.9	1822.8	1793.4	1940.4	1955.1	1960.0
42.5°	9226.5	4057.1	1862.0	1783.6	1803.2	1803.2	1754.2	1719.9	1822.8	1724.8	1710.1
45°	9843.9	4302.1	1783.6	1656.2	1705.2	1729.7	1715.0	1656.2	1592.5	1425.9	1425.9
47.5°	10044.8	4517.7	1690.5	1533.7	1572.9	1680.7	1636.6	1514.1	1401.4	1264.2	1254.4
50°	10397.6	4752.9	1617.0	1391.6	1474.9	1607.2	1563.1	1440.6	1313.2	1215.2	1220.1
52.5°	10760.2	5022.4	1479.8	1225.0	1327.9	1548.4	1548.4	1411.2	1215.2	1146.6	1136.8
55°	11304.1	5012.6	1234.8	1004.5	1185.8	1460.2	1484.7	1264.2	1087.8	1033.9	1033.9
56°	11382.5	4787.2	1112.3	940.8	1122.1	1435.7	1440.6	1225.0	1038.8	980.0	980.0
57.5°	10794.5	4321.7	975.1	862.4	1043.7	1391.6	1396.5	1190.7	999.6	916.3	906.5
60°	8305.3	2925.2	813.4	769.3	945.7	1254.4	1278.9	1082.9	877.1	813.4	808.5
62.5°	4689.2	1621.9	715.4	695.8	813.4	1068.2	1141.7	945.7	744.8	710.5	720.3
65°	2141.3	891.8	602.7	563.5	656.6	823.2	921.2	779.1	612.5	573.3	573.3
67.5°	784.0	607.6	514.5	445.9	460.6	534.1	597.8	504.7	406.7	347.9	362.6
70°	558.6	509.6	450.8	387.1	357.7	347.9	343.0	284.2	200.9	156.8	166.6
72.5°	450.8	421.4	377.3	328.3	279.3	235.2	200.9	147.0	93.1	63.7	58.8
75°	323.4	308.7	274.4	235.2	196.0	166.6	137.2	93.1	49.0	24.5	24.5
77.5°	166.6	166.6	161.7	147.0	122.5	98.0	78.4	53.9	29.4	9.8	9.8
80°	127.4	137.2	142.1	127.4	112.7	88.2	63.7	39.2	19.6	4.9	4.9
82.5°	122.5	142.1	151.9	132.3	112.7	83.3	63.7	39.2	19.6	4.9	4.9
85°	29.4	29.4	44.1	49.0	63.7	68.6	53.9	34.3	14.7	4.9	4.9
87.5°	9.8	9.8	9.8	9.8	9.8	9.8	4.9	4.9	4.9	4.9	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)