

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: P531971

Luminaire Tested: **GALN-SA7B-740-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531971
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-SA7B-740-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 800mA 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: 29565 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

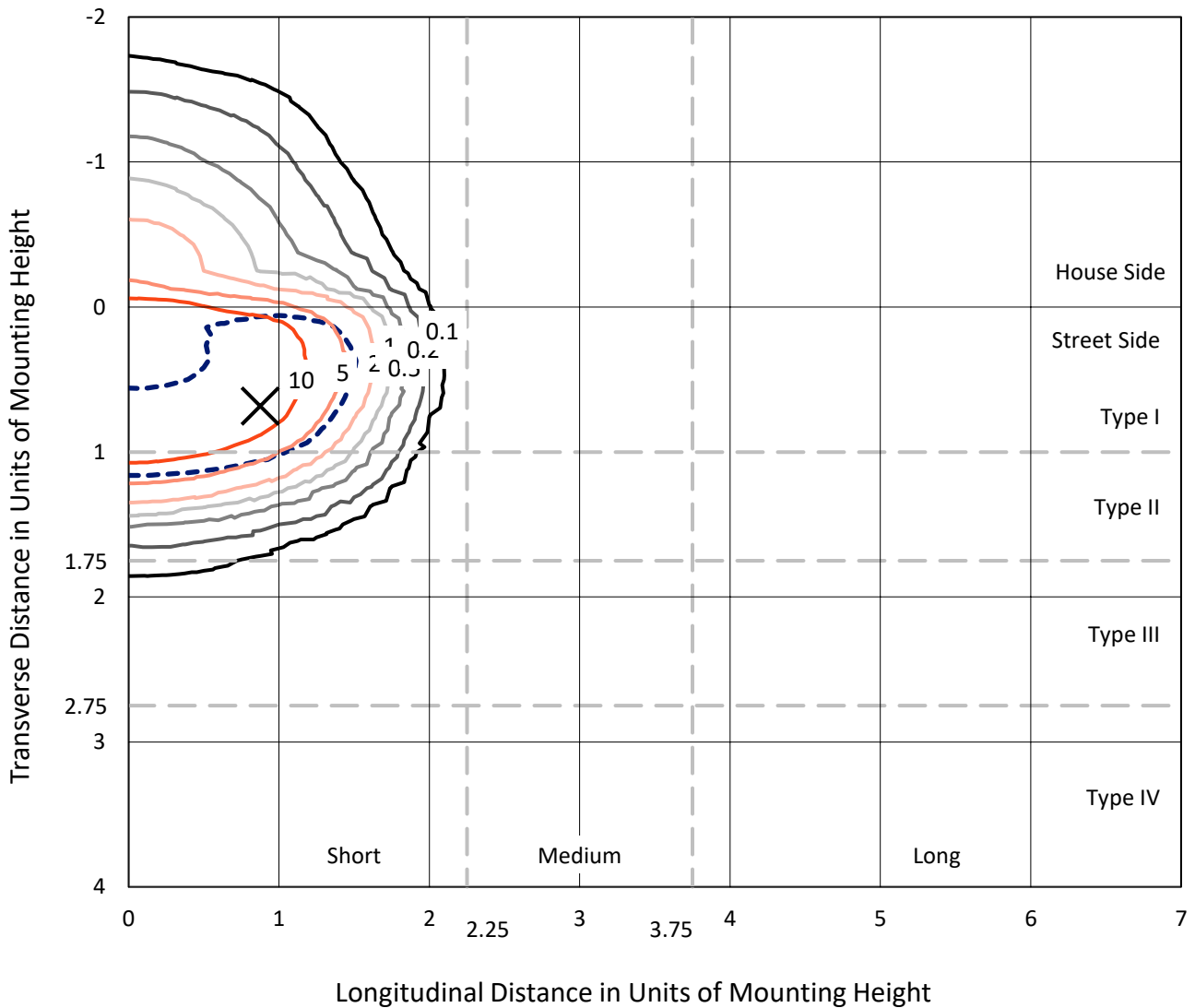
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

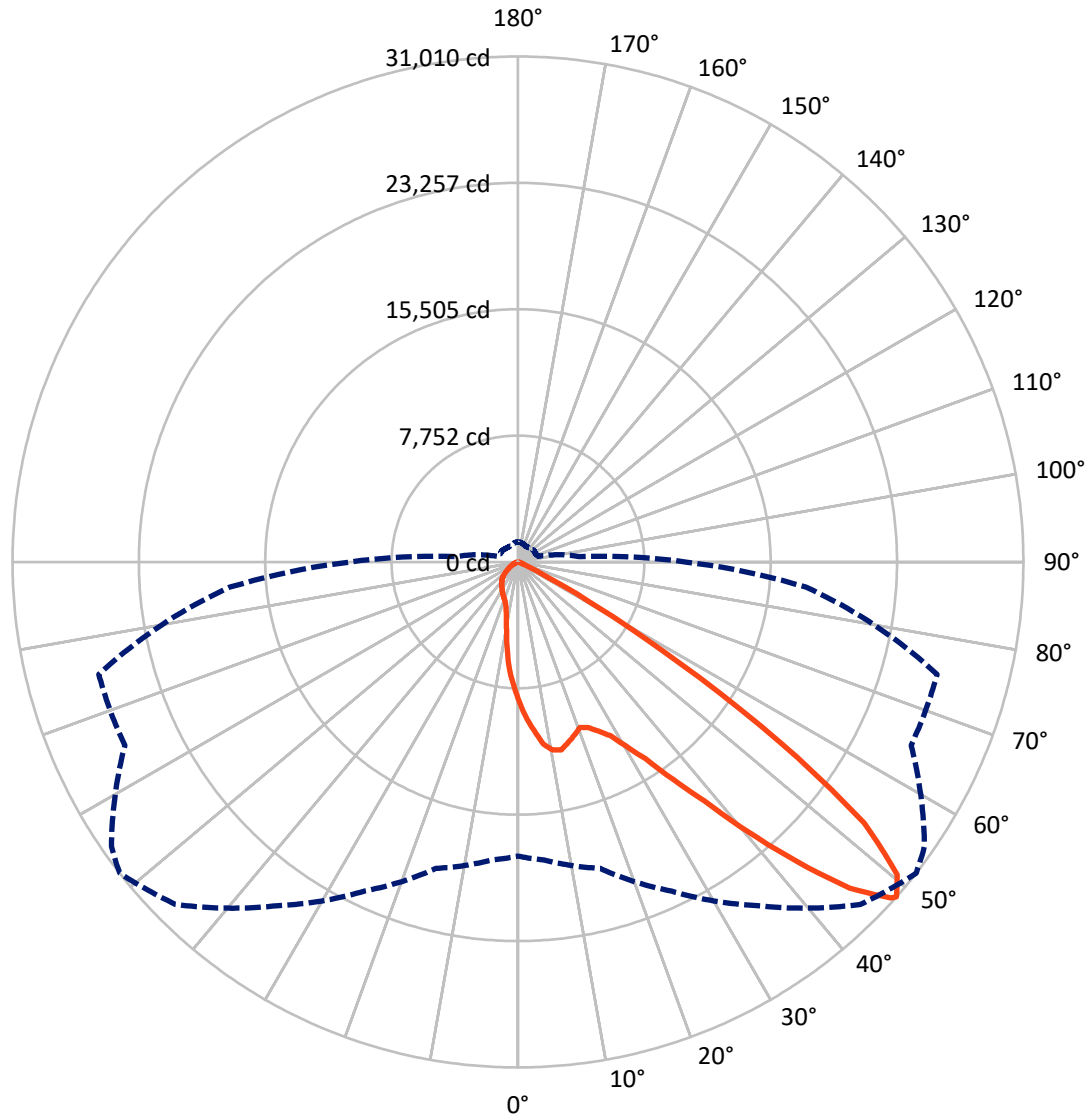
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.1 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	3599.8	0.0	3599.8
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	25965.2	0.0	25965.2
	% Fixture	87.8	0.0	87.8
Total	Lumens	29565.0	0.0	29565.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	781.5	2.6
10°-20°	2042.2	6.9
20°-30°	3486.9	11.8
30°-40°	6421.2	21.7
40°-50°	9972.1	33.7
50°-60°	6001.5	20.3
60°-70°	694.1	2.3
70°-80°	134.4	0.5
80°-90°	31.1	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°	29565.0	100.0
0°-180°	29565.0	100.0

Coefficient of Utilization



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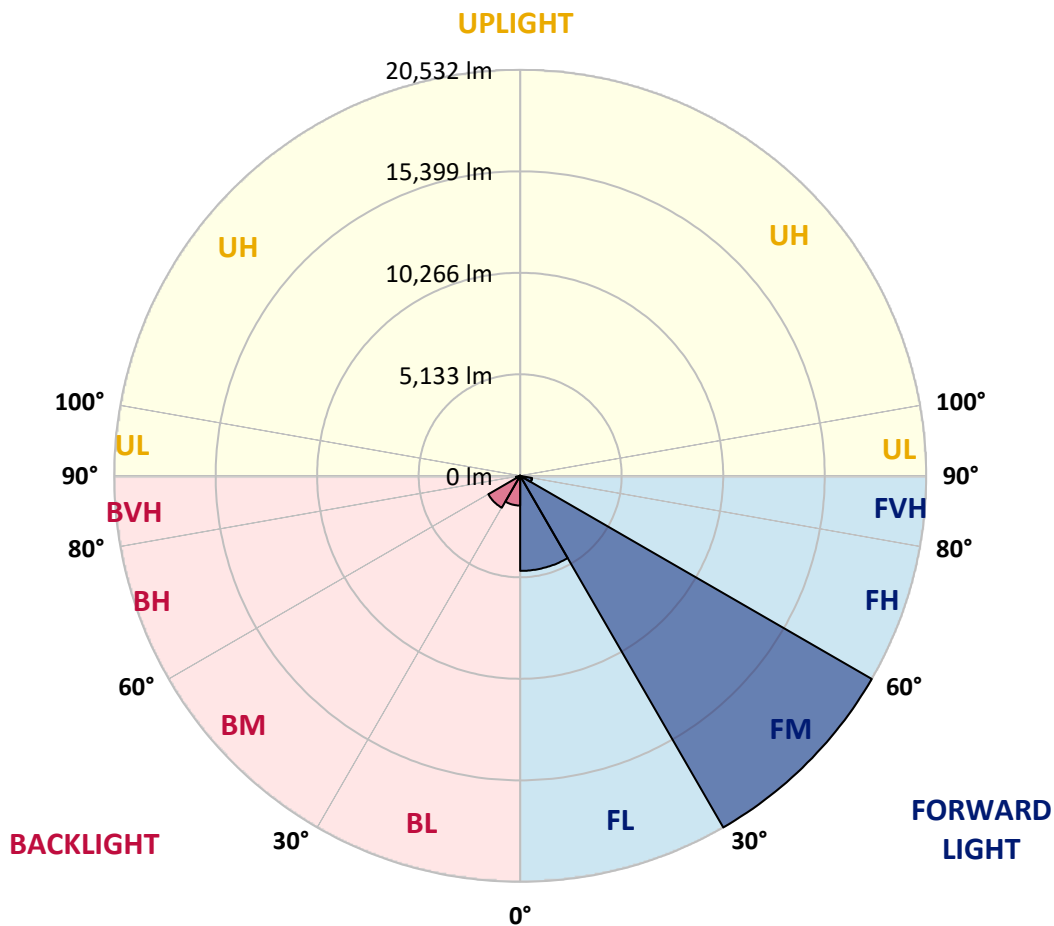
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4806.9	16.3			
FM (30°-60°)	20532.3	69.4			
FH (60°-80°)	611.2	2.1			G0/660
FVH (80°-90°)	14.8	0.1			G1/100
BL (0°-30°)	1503.7	5.1	B3/2500		
BM (30°-60°)	1862.5	6.3	B2/2500		
BH (60°-80°)	217.3	0.7	B1/500		G1/500
BVH (80°-90°)	16.3	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	8537.9	8537.9	8537.9	8537.9	8537.9	8537.9	8537.9	8537.9	8537.9	8537.9	8537.9
2.5°	10348.0	10111.0	10132.5	9977.4	9886.9	9740.3	9542.1	9503.3	9287.8	8994.7	8697.3
5°	11279.0	11222.9	11296.2	11072.1	11080.7	10839.4	10373.9	10382.5	9886.9	9408.5	8947.3
7.5°	11339.3	11210.0	11283.3	11481.5	11597.9	11554.8	11291.9	11063.5	10593.7	9891.2	9218.8
10°	10154.1	10399.8	10477.3	10804.9	11270.3	11761.7	11731.5	11744.4	11352.2	10434.2	9451.6
12.5°	9443.0	9279.2	9542.1	9740.3	10442.8	11395.3	11830.6	11925.5	11955.6	10960.0	9684.3
15°	9119.7	9119.7	9162.8	9218.8	9727.4	10606.6	11494.5	11770.3	12421.1	11649.6	10050.7
17.5°	9322.3	9313.7	9374.0	9257.6	9447.3	10123.9	11184.1	11498.8	12942.6	12326.3	10339.4
20°	9938.6	9968.8	9930.0	9593.8	9606.7	10115.3	10839.4	11335.0	13296.0	12912.4	10723.0
22.5°	10796.3	10813.5	10593.7	10227.4	10119.6	10369.6	11037.6	11416.9	13580.4	13614.9	10839.4
25°	11787.5	11718.6	11675.5	11158.3	10830.7	11046.2	11485.8	11705.6	13757.2	14218.3	11171.2
27.5°	13162.4	13024.5	12761.6	12300.4	12059.1	11753.1	12067.7	12429.7	14261.4	15063.0	11533.3
30°	15192.3	15071.7	14558.8	13964.0	13330.5	13028.8	13127.9	13326.2	15170.8	16041.4	12011.6
32.5°	18248.1	17993.8	17252.5	16119.0	15257.0	14425.2	14399.3	14610.5	15985.4	17394.7	12580.6
35°	21614.1	21536.5	20446.1	19278.1	17610.2	16325.8	16347.4	16459.4	17545.5	19170.4	13326.2
37.5°	23850.9	24277.6	23583.7	22329.5	20928.8	19092.8	18627.3	18666.1	19687.6	21273.6	14670.8
40°	25579.2	25217.1	25299.0	25005.9	24049.2	22799.3	21769.2	21566.7	22165.7	23600.9	16006.9
42.5°	24824.9	24842.2	25346.4	26040.3	26277.4	26186.9	25135.2	24751.7	24286.2	25505.9	17278.3
45°	22695.9	23139.8	23794.9	25630.9	27242.8	28755.5	28548.7	27910.8	25751.6	27014.4	18011.0
47.5°	19299.7	19282.4	20355.6	22743.3	26324.8	29867.5	30807.1	30358.8	26790.2	26846.3	17860.2
48°	18045.5	18355.8	19463.4	22273.5	25742.9	29703.7	31009.6	30445.0	26613.5	26622.2	17730.9
50°	13339.1	13283.1	14662.2	18110.1	22993.2	27910.8	30156.3	30595.9	26609.2	25488.7	16825.8
52.5°	7046.7	7288.0	8292.2	11386.7	16256.9	22842.4	26600.6	27285.9	25669.7	23635.4	15524.2
55°	2995.4	2706.6	3478.1	5141.7	9145.6	15261.3	19515.2	21040.9	21704.6	20915.9	13580.4
57.5°	1068.9	1168.0	1344.7	1935.1	3844.4	8352.6	11636.7	12821.9	15037.2	15347.5	9253.3
60°	685.3	698.2	754.2	887.8	1443.8	3219.5	5521.0	6464.8	7469.0	7710.4	4318.5
62.5°	530.1	534.4	560.3	581.8	685.3	1249.9	2073.1	2456.6	2551.5	2193.7	1133.5
65°	443.9	448.2	456.8	456.8	487.0	586.1	724.1	797.3	775.8	767.2	642.2
67.5°	340.5	349.1	366.3	366.3	383.6	357.7	400.8	426.7	482.7	586.1	547.4
70°	267.2	271.5	284.5	293.1	293.1	258.6	288.8	314.6	353.4	435.3	431.0
72.5°	206.9	215.5	224.1	224.1	211.2	176.7	206.9	228.4	254.3	301.7	293.1
75°	159.5	159.5	163.8	133.6	103.4	90.5	125.0	150.8	189.6	198.3	163.8
77.5°	43.1	47.4	43.1	38.8	43.1	64.6	81.9	94.8	120.7	120.7	107.7
80°	0.0	4.3	12.9	25.9	43.1	60.3	73.3	81.9	94.8	103.4	99.1
82.5°	0.0	4.3	12.9	25.9	38.8	47.4	64.6	69.0	77.6	90.5	90.5
85°	0.0	4.3	8.6	17.2	25.9	30.2	30.2	25.9	25.9	21.5	17.2
87.5°	0.0	0.0	4.3	8.6	8.6	12.9	12.9	12.9	12.9	12.9	12.9
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°	8537.9	8537.9	8537.9	8537.9	8537.9	8537.9	8537.9	8537.9	8537.9	8537.9	8537.9
2.5°	8581.0	8447.4	8244.8	7925.9	7619.9	7421.6	7232.0	7020.8	6904.4	6895.8	6831.2
5°	8684.4	8382.7	7900.0	7352.7	6766.5	6262.3	5753.7	5421.8	5124.5	4960.7	4930.5
7.5°	8740.4	8348.2	7568.2	6650.2	5650.3	4827.1	4258.2	3840.1	3676.3	3555.7	3551.3
10°	8856.8	8287.9	7072.5	5719.2	4482.3	3650.5	3258.3	3068.6	2978.1	2943.7	2891.9
12.5°	8943.0	8175.9	6564.0	4762.4	3542.7	3025.5	2853.1	2810.0	2814.4	2831.6	2810.0
15°	9063.7	8076.7	5878.7	3909.1	2973.8	2723.8	2723.8	2732.5	2792.8	2801.4	2797.1
17.5°	9055.1	7882.8	5171.9	3219.5	2629.0	2594.6	2607.5	2689.4	2728.2	2741.1	2710.9
20°	9158.5	7701.8	4443.5	2749.7	2435.1	2486.8	2573.0	2594.6	2642.0	2650.6	2616.1
22.5°	9128.3	7249.2	3766.8	2379.1	2288.5	2387.7	2473.9	2499.7	2486.8	2460.9	2456.6
25°	9072.3	6861.3	3146.2	2133.4	2180.8	2288.5	2370.4	2323.0	2297.2	2301.5	2305.8
27.5°	8973.2	6370.0	2633.3	1961.0	2034.3	2193.7	2189.4	2172.2	2198.0	2176.5	2198.0
30°	8955.9	5878.7	2211.0	1805.8	1926.5	2042.9	2051.5	2081.7	2111.8	2073.1	2111.8
32.5°	8981.8	5339.9	1909.3	1711.0	1861.9	1866.2	1961.0	1991.2	1969.6	1883.4	1892.0
35°	9180.1	4926.2	1689.5	1659.3	1758.4	1762.7	1853.3	1814.5	1719.6	1667.9	1698.1
37.5°	9598.1	4581.4	1586.0	1611.9	1620.5	1676.5	1680.9	1603.3	1611.9	1607.6	1624.8
40°	10132.5	4318.5	1512.8	1568.8	1560.2	1599.0	1443.8	1486.9	1525.7	1538.6	1547.2
42.5°	10498.9	4128.9	1465.4	1499.8	1482.6	1413.6	1327.4	1370.5	1400.7	1448.1	1456.7
45°	10662.7	3978.0	1409.3	1379.2	1379.2	1254.2	1219.7	1228.3	1297.3	1349.0	1340.4
47.5°	10395.4	3831.5	1310.2	1219.7	1249.9	1146.4	1107.6	1107.6	1180.9	1245.6	1232.6
48°	10292.0	3771.1	1314.5	1185.2	1206.8	1129.2	1090.4	1081.8	1163.7	1224.0	1224.0
50°	9779.1	3547.0	1202.5	1090.4	1047.3	1038.7	1012.8	1021.4	1073.2	1129.2	1129.2
52.5°	8779.2	3064.3	1017.1	935.2	857.7	909.4	922.3	905.1	930.9	982.7	978.3
55°	7326.8	2353.2	814.6	775.8	715.4	771.5	797.3	775.8	749.9	788.7	788.7
57.5°	4693.5	1267.1	650.8	659.4	599.1	655.1	676.7	624.9	577.5	607.7	603.4
60°	2116.2	758.5	534.4	521.5	482.7	547.4	581.8	521.5	456.8	478.4	499.9
62.5°	793.0	538.7	405.1	396.5	387.9	448.2	465.5	418.1	353.4	366.3	370.7
65°	581.8	474.1	323.2	293.1	310.3	353.4	344.8	297.4	254.3	254.3	262.9
67.5°	495.6	413.7	262.9	228.4	228.4	232.7	215.5	189.6	176.7	185.3	193.9
70°	387.9	327.6	206.9	176.7	159.5	142.2	125.0	120.7	107.7	120.7	116.4
72.5°	250.0	219.8	159.5	133.6	120.7	99.1	81.9	77.6	64.6	60.3	60.3
75°	133.6	133.6	125.0	107.7	94.8	77.6	64.6	51.7	34.5	25.9	25.9
77.5°	94.8	103.4	112.1	103.4	86.2	64.6	51.7	34.5	17.2	8.6	8.6
80°	90.5	103.4	112.1	99.1	86.2	64.6	47.4	25.9	12.9	4.3	4.3
82.5°	81.9	94.8	103.4	90.5	77.6	56.0	43.1	25.9	12.9	4.3	4.3
85°	17.2	21.5	25.9	25.9	30.2	38.8	30.2	21.5	8.6	4.3	4.3
87.5°	12.9	12.9	12.9	12.9	12.9	12.9	8.6	8.6	4.3	4.3	4.3
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)