

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: P534434

Luminaire Tested: **GALN-SA9D-830-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534434
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-830-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48648 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

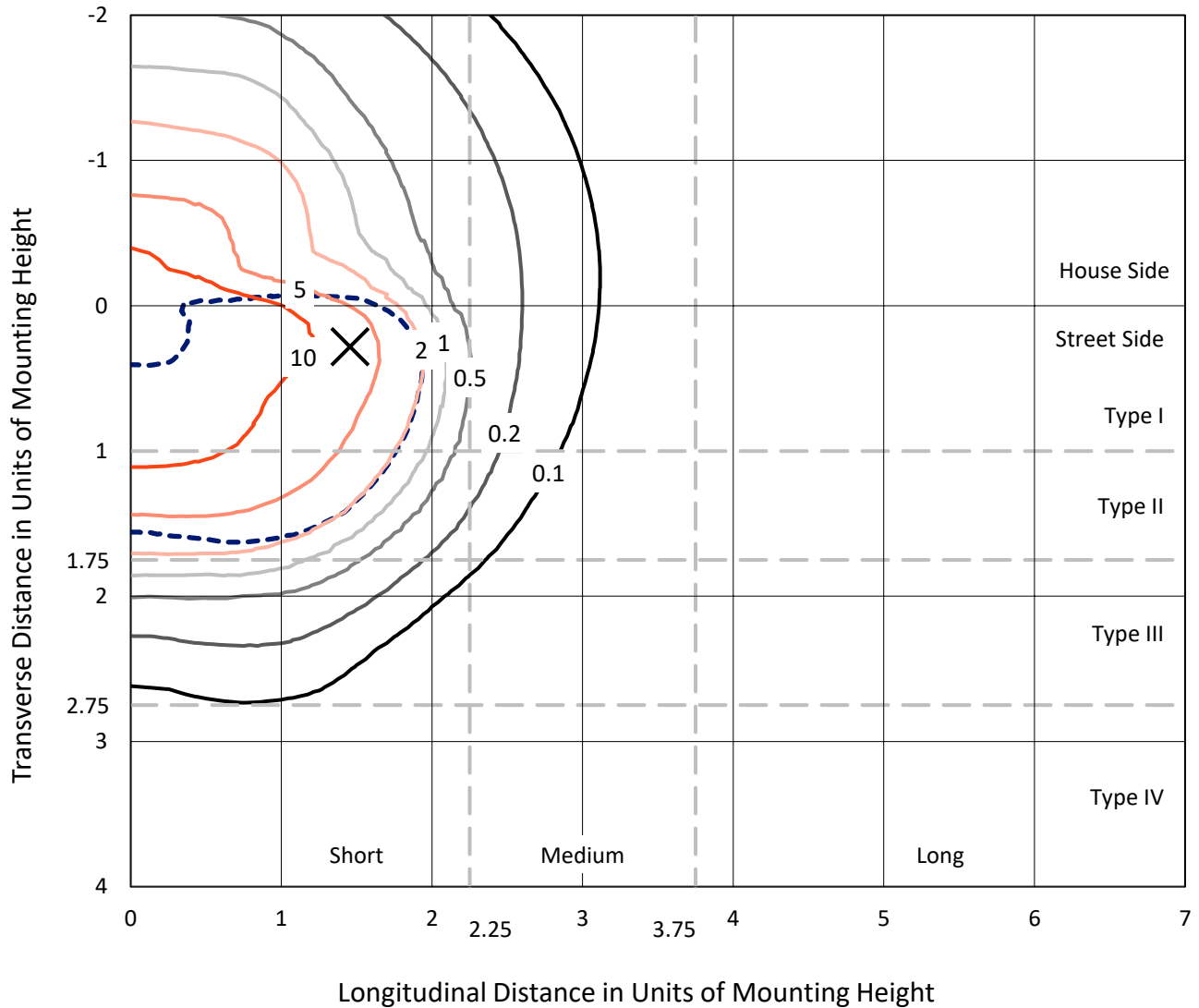
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

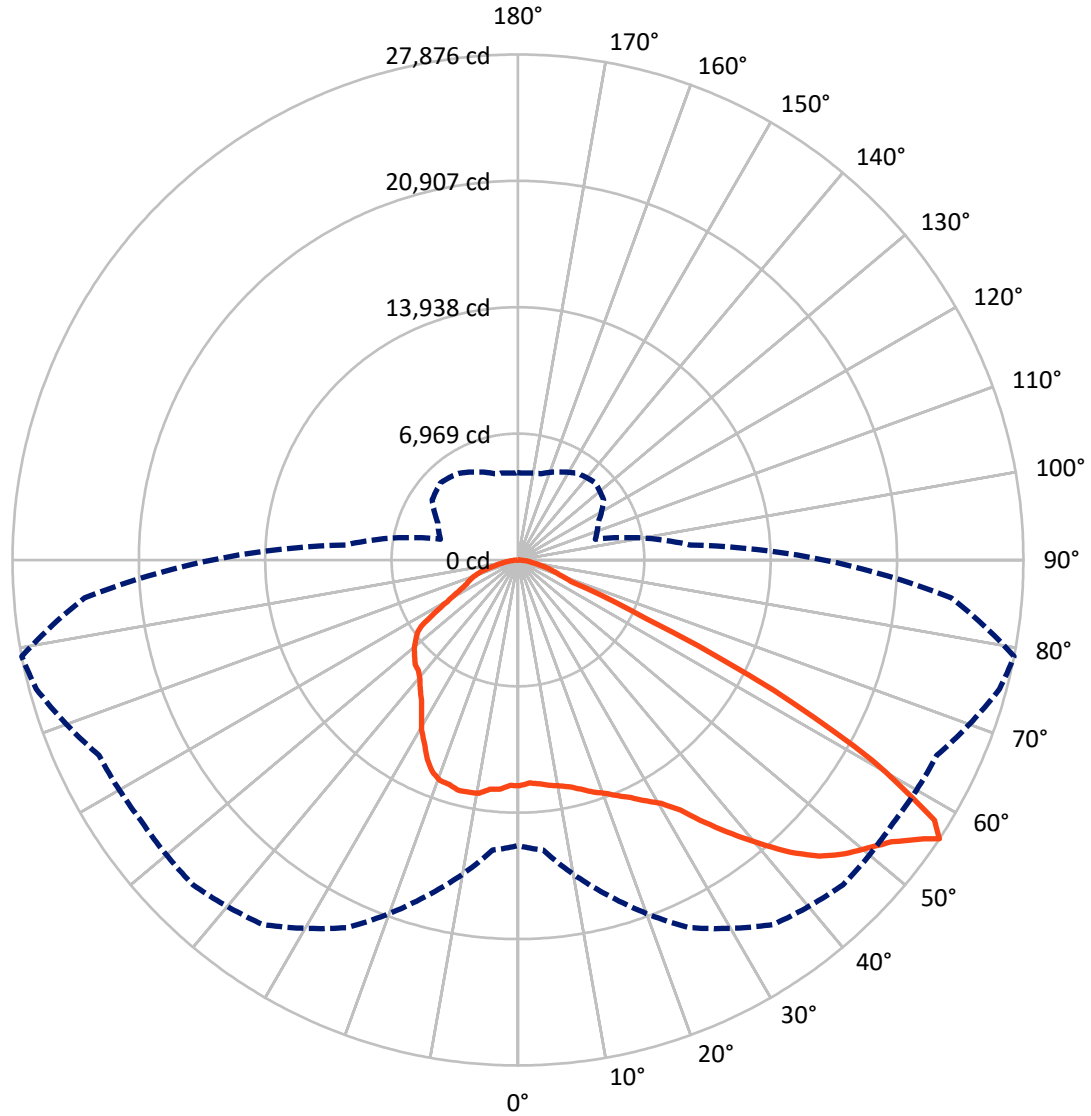
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14366.8	0.0	14366.8
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	34281.2	0.0	34281.2
	% Fixture	70.5	0.0	70.5
Total	Lumens	48648.0	0.0	48648.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1131.7	2.3
10°-20°	3097.1	6.4
20°-30°	5298.5	10.9
30°-40°	8120.6	16.7
40°-50°	10975.0	22.6
50°-60°	12605.2	25.9
60°-70°	5745.8	11.8
70°-80°	1416.6	2.9
80°-90°	257.5	0.5
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°	48648.0	100.0
0°-180°	48648.0	100.0

Coefficient of Utilization

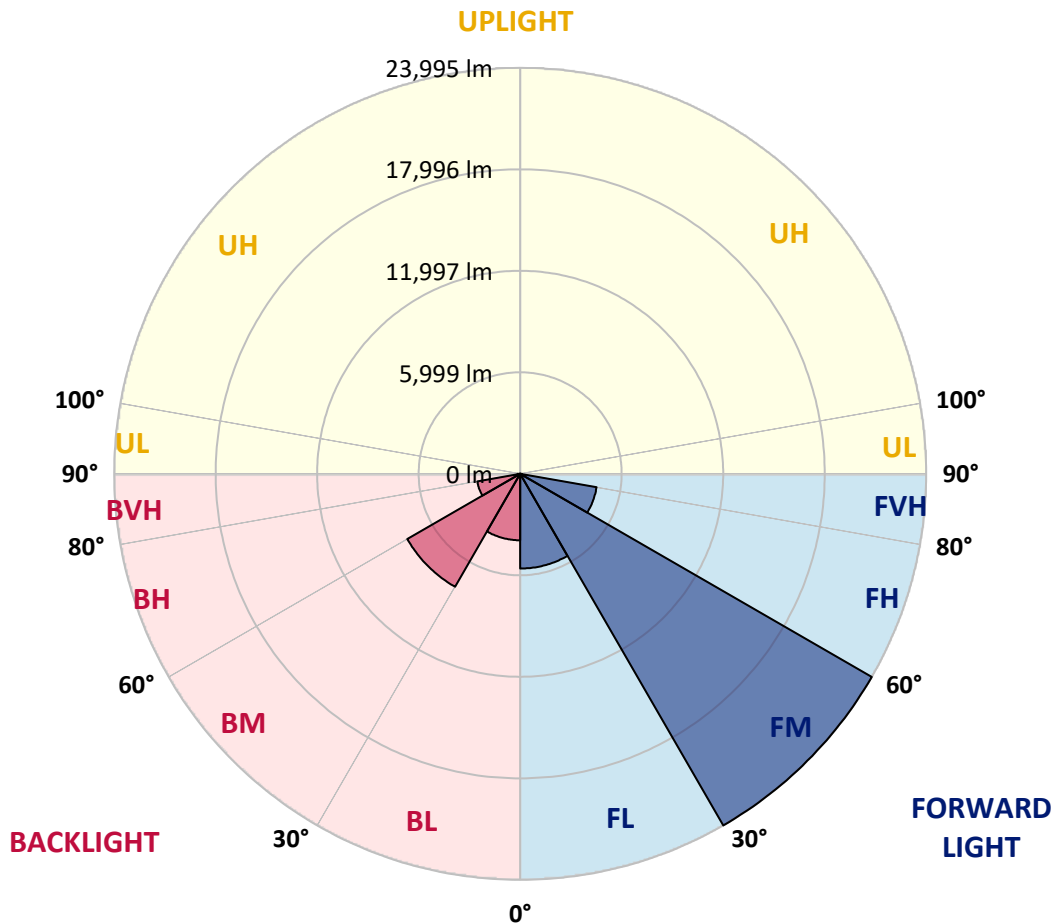


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5597.4	11.5			
FM (30°-60°)	23994.6	49.3			
FH (60°-80°)	4586.4	9.4			G2/5000
FVH (80°-90°)	102.8	0.2			G2/225
BL (0°-30°)	3929.9	8.1	B4/5000		
BM (30°-60°)	7706.2	15.8	B4/8500		
BH (60°-80°)	2576.0	5.3	B4/5000		G4/5000
BVH (80°-90°)	154.7	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	12447.1	12447.1	12447.1	12447.1	12447.1	12447.1	12447.1	12447.1	12447.1	12447.1	12447.1
2.5°	11841.1	11810.8	11883.5	11938.1	12004.7	12089.6	12132.0	12156.2	12368.3	12313.8	12477.4
5°	11586.6	11507.8	11562.3	11604.8	11719.9	11822.9	11938.1	12119.9	12313.8	12398.6	12598.6
7.5°	11362.4	11319.9	11307.8	11338.1	11495.7	11629.0	11829.0	12095.6	12410.7	12550.1	12665.3
10°	10992.7	10932.1	11023.0	11223.0	11265.4	11544.2	11774.4	12156.2	12428.9	12671.3	13010.7
12.5°	10829.1	10768.5	10786.7	10901.8	11198.8	11465.4	11738.1	12168.3	12744.0	12841.0	13295.5
15°	11089.7	11029.1	11047.3	11017.0	11301.8	11441.1	11871.4	12410.7	12962.2	13125.8	13610.6
17.5°	11683.5	11689.6	11610.8	11544.2	11477.5	11774.4	12071.4	12556.2	13047.0	13459.1	13822.7
20°	12816.8	12616.8	12459.2	12083.5	11980.5	12107.7	12483.5	12950.1	13392.4	13731.8	14143.9
22.5°	13689.4	13707.6	13483.3	12865.2	12641.0	12695.6	13016.7	13398.5	13883.3	14125.7	14598.4
25°	14955.9	14828.6	14586.3	14095.4	13592.4	13634.8	13871.2	14216.6	14349.9	14519.6	15034.7
27.5°	16113.4	16149.7	15671.0	15210.4	14586.3	14465.1	14889.2	14949.8	14725.6	15046.8	15222.5
30°	17289.0	17258.7	16943.6	16404.2	15792.2	15816.4	16004.3	15707.3	15398.3	15574.0	15695.2
32.5°	18507.0	18161.6	18149.5	17664.7	17198.1	16973.9	16743.6	16889.0	16410.3	16446.7	16331.5
35°	19482.7	19531.2	19252.4	18907.0	18676.7	18282.8	17652.6	17913.2	17822.3	17779.8	17282.9
37.5°	20191.7	20003.8	20143.2	20028.1	19809.9	19319.1	18664.6	18913.0	18955.5	19161.5	18585.8
40°	20773.4	20694.7	21064.3	21124.9	20973.4	19912.9	18737.3	19476.6	20112.9	20561.3	19876.6
42.5°	21052.2	21221.9	21609.7	22076.3	21737.0	20603.8	19113.0	19906.9	21324.9	22033.9	21100.7
45°	21427.9	21209.8	21785.4	22639.9	22646.0	21185.5	19476.6	20488.6	22270.2	23300.4	21936.9
47.5°	21046.1	21155.2	21749.1	22833.8	23112.6	21797.6	20458.3	21312.8	23312.6	24227.6	22712.6
50°	20191.7	20409.8	21494.6	22621.7	23464.0	22446.0	21585.5	22203.6	24276.1	24973.0	22839.9
52.5°	19300.9	19422.1	21118.9	22785.3	23621.6	23282.3	23094.4	23433.8	25451.7	25815.3	22997.4
55°	16876.9	17452.6	19876.6	22712.6	24391.2	24791.2	24645.7	25142.7	26784.9	27148.5	23857.9
56°	15755.8	16058.8	19131.2	22373.3	24542.7	25342.6	25269.9	25494.1	27493.9	27875.7	23991.3
57.5°	13683.3	13707.6	16313.3	20870.4	23973.1	25506.2	25433.5	25609.3	27354.5	27093.9	22821.7
60°	8562.7	8938.4	11101.8	16052.8	20385.6	23664.0	24076.1	22664.1	23064.1	22512.6	17755.6
62.5°	4435.9	4381.3	5817.5	9386.8	13531.8	16943.6	17325.3	17258.7	16640.6	15834.6	11598.7
65°	2211.9	2224.0	3042.1	4648.0	6932.6	8871.7	9938.3	10053.4	8411.2	7738.5	5502.4
67.5°	1605.9	1666.5	2187.6	2842.1	3266.3	3654.1	4478.3	4393.4	3326.9	3163.3	2933.0
70°	1248.3	1302.9	1775.6	2169.5	1969.5	1969.5	2145.2	2217.9	2369.4	2436.1	2514.9
72.5°	909.0	951.4	1357.4	1496.8	1290.8	1387.7	1605.9	1775.6	1933.1	1957.4	2048.3
75°	624.2	660.5	890.8	824.2	775.7	957.5	1175.6	1333.2	1448.3	1508.9	1563.5
77.5°	406.0	418.1	509.0	430.3	496.9	618.1	763.6	896.9	1012.0	1060.5	1072.6
80°	181.8	200.0	218.2	272.7	345.4	442.4	545.4	654.5	727.2	745.4	781.7
82.5°	103.0	103.0	133.3	193.9	254.5	321.2	393.9	472.7	557.5	575.7	569.6
85°	54.5	54.5	78.8	115.1	157.6	187.9	181.8	187.9	200.0	230.3	224.2
87.5°	18.2	18.2	24.2	24.2	30.3	36.4	30.3	42.4	54.5	54.5	54.5
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°	12447.1	12447.1	12447.1	12447.1	12447.1	12447.1	12447.1	12447.1	12447.1	12447.1	12447.1
2.5°	12428.9	12483.5	12410.7	12568.3	12568.3	12538.0	12386.5	12435.0	12471.3	12471.3	12501.6
5°	12665.3	12647.1	12695.6	12507.7	12392.6	12350.1	12101.7	11980.5	11877.5	11871.4	11780.5
7.5°	12798.6	12750.1	12731.9	12592.5	12083.5	11774.4	11241.2	10932.1	10865.5	10629.1	10720.0
10°	13010.7	13101.6	13010.7	12253.2	11544.2	10835.2	10314.0	9835.3	9647.4	9495.9	9405.0
12.5°	13447.0	13404.6	12877.4	11853.2	10859.4	10017.1	9241.4	8738.4	8550.6	8417.2	8405.1
15°	13816.6	13604.5	12798.6	11223.0	9792.8	8896.0	8259.7	7902.1	7817.3	7829.4	7884.0
17.5°	13943.9	13798.5	12386.5	10568.5	8999.0	7944.6	7647.6	7593.1	7671.9	7762.8	7787.0
20°	14143.9	13913.6	12216.8	9677.7	8017.3	7350.7	7332.5	7526.4	7671.9	7805.2	7823.4
22.5°	14562.0	13980.3	11665.4	8835.4	7344.6	7175.0	7350.7	7514.3	7738.5	7847.6	7750.7
25°	14683.2	13834.8	10889.7	7823.4	6920.4	7065.9	7253.7	7478.0	7635.5	7696.1	7738.5
27.5°	14786.2	13610.6	9841.3	7150.7	6787.1	7059.8	7253.7	7441.6	7526.4	7581.0	7629.5
30°	15077.1	13543.9	8932.3	6702.3	6702.3	6938.6	7187.1	7235.6	7350.7	7417.4	7502.2
32.5°	15222.5	13083.4	7999.1	6417.5	6617.4	6999.2	7017.4	7108.3	7114.4	7168.9	7078.0
35°	15604.3	12756.2	7132.5	6211.4	6653.8	6938.6	7029.5	6975.0	6678.0	6532.6	6562.9
37.5°	15883.1	12592.5	6508.4	6187.2	6659.9	7005.3	7053.8	6641.7	6332.6	6090.2	6150.8
40°	16634.5	12186.5	6035.7	6144.8	6714.4	7078.0	6944.7	6496.2	5938.7	5690.3	5647.9
42.5°	17210.2	11895.6	5738.8	6096.3	6756.8	7181.0	6890.1	6205.4	5635.7	5405.5	5466.1
45°	17876.8	11829.0	5581.2	6108.4	6829.5	7235.6	6823.5	5981.2	5375.2	5284.3	5266.1
47.5°	18113.1	11350.2	5411.5	6005.4	6811.4	7217.4	6599.3	5811.5	5278.2	5290.3	5338.8
50°	17719.2	10859.4	5284.3	5793.3	6690.2	7053.8	6247.8	5587.3	5223.7	5375.2	5460.0
52.5°	17216.3	10356.4	5023.7	5508.5	6441.7	6799.2	6084.2	5575.1	5169.1	5120.6	5138.8
55°	17367.8	9944.3	4660.1	5120.6	6041.8	6326.6	5902.4	5460.0	5035.8	4854.0	4914.6
56°	16876.9	9520.2	4423.7	4878.2	5769.1	6023.6	5811.5	5357.0	4926.7	4805.5	4805.5
57.5°	15489.2	8096.1	4114.7	4490.4	5193.4	5496.4	5635.7	5296.4	4805.5	4593.4	4599.5
60°	11423.0	5756.9	3690.5	3957.1	4302.6	4544.9	5193.4	5126.7	4502.5	4357.1	4302.6
62.5°	7041.6	4205.6	3387.5	3490.5	3666.3	3866.2	4532.8	4641.9	4181.4	4023.8	3987.4
65°	3945.0	3217.8	3157.2	3199.6	3284.5	3387.5	3763.2	4005.6	3690.5	3448.1	3436.0
67.5°	2884.5	2878.5	2926.9	2963.3	2999.7	2999.7	3090.6	3187.5	3145.1	2951.2	2933.0
70°	2563.4	2581.5	2617.9	2623.9	2636.1	2593.7	2520.9	2490.6	2539.1	2417.9	2393.7
72.5°	2114.9	2175.5	2217.9	2224.0	2157.3	2102.8	2005.8	1902.8	1866.5	1842.2	1836.2
75°	1624.1	1666.5	1684.7	1678.6	1654.4	1575.6	1460.4	1357.4	1290.8	1218.0	1254.4
77.5°	1096.8	1157.4	1187.7	1187.7	1151.4	1030.2	975.6	896.9	830.2	751.4	763.6
80°	769.6	812.0	860.5	854.5	793.9	733.3	654.5	581.8	527.2	466.6	460.6
82.5°	575.7	599.9	624.2	612.1	569.6	509.0	454.5	387.8	327.2	284.8	284.8
85°	206.0	224.2	272.7	284.8	309.1	309.1	260.6	218.2	175.7	145.4	145.4
87.5°	60.6	60.6	66.7	66.7	60.6	66.7	54.5	60.6	66.7	42.4	42.4
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)