

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: P529647

Luminaire Tested: **GALN-SA4D-740-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529647
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-740-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18275 lumens
Efficiency: N/A
Efficacy: 74.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

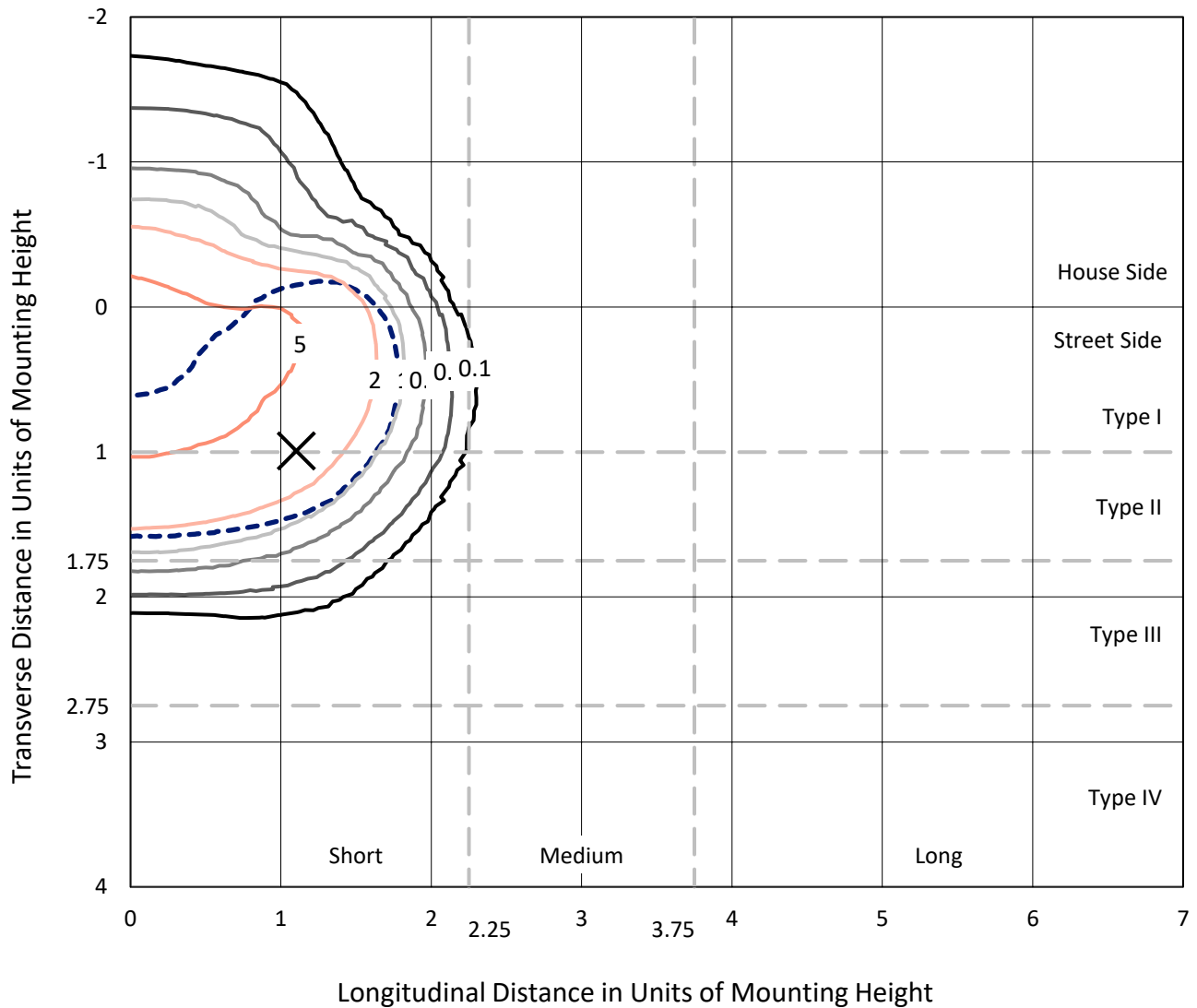
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

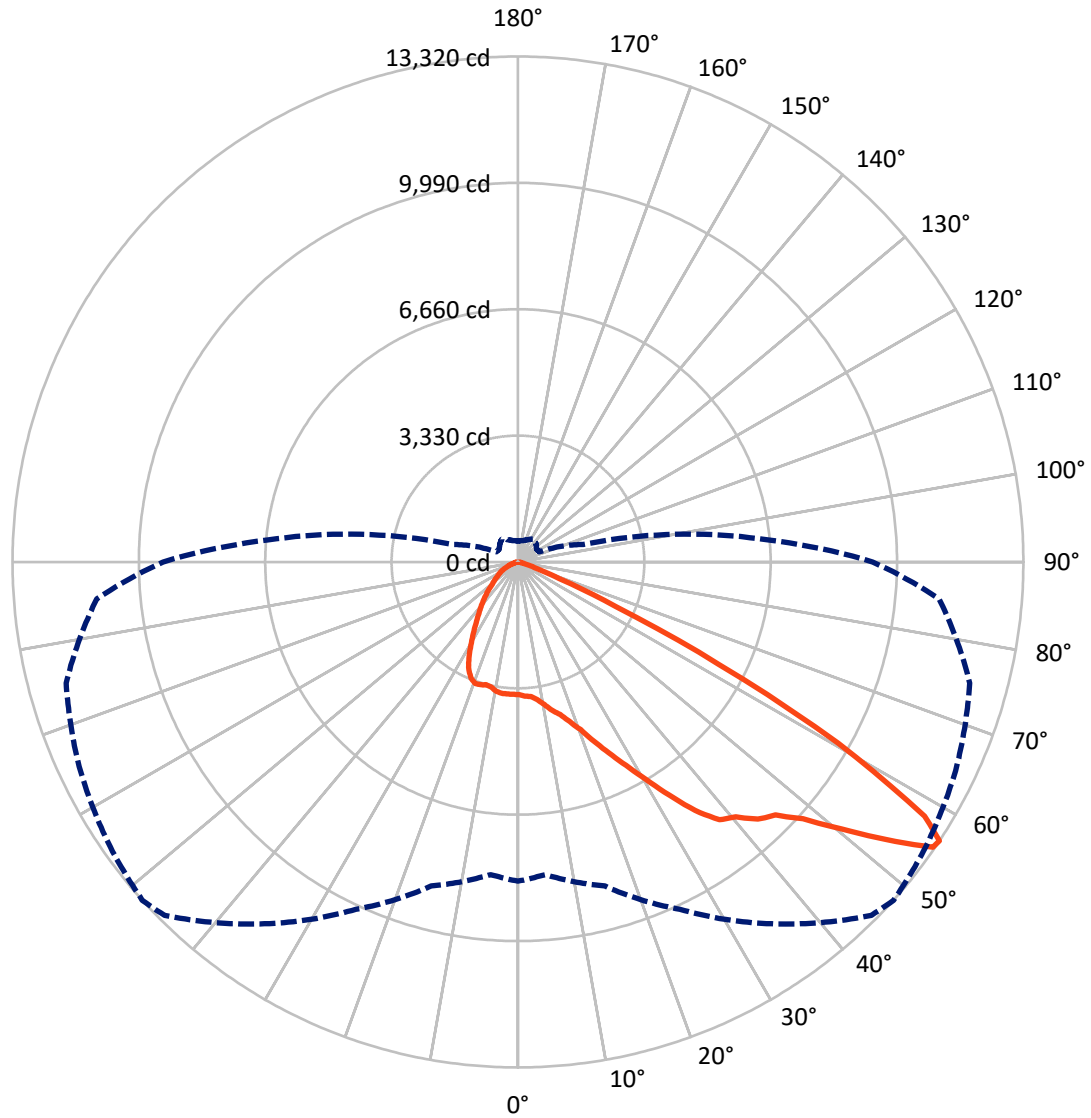
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3974.5	0.0	3974.5
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	14300.5	0.0	14300.5
	% Fixture	78.3	0.0	78.3
Total	Lumens	18275.0	0.0	18275.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	340.0	1.9
10°-20°	1086.6	5.9
20°-30°	1970.9	10.8
30°-40°	3095.9	16.9
40°-50°	4516.4	24.7
50°-60°	5441.4	29.8
60°-70°	1593.2	8.7
70°-80°	202.1	1.1
80°-90°	28.3	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°	18275.0	100.0
0°-180°	18275.0	100.0

Coefficient of Utilization

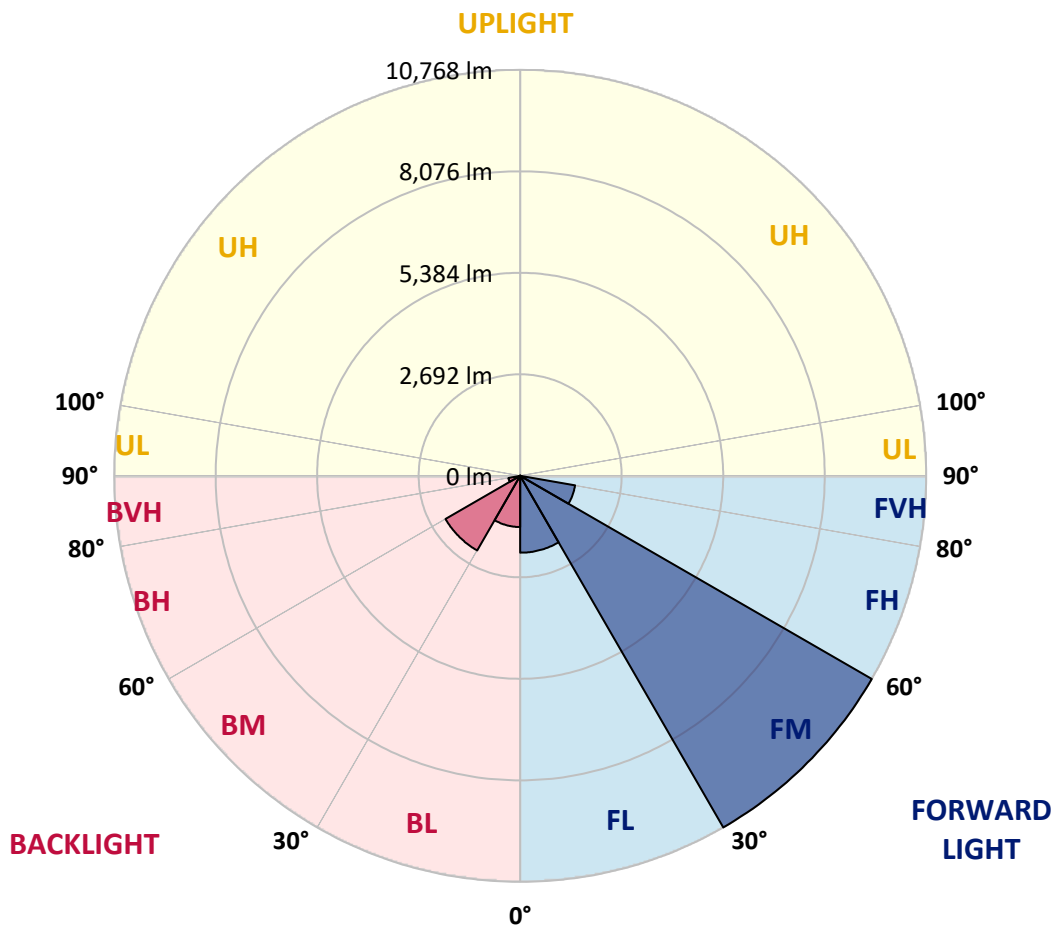


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2039.1	11.2			
FM (30°-60°)	10767.7	58.9			
FH (60°-80°)	1479.5	8.1			G1/1800
FVH (80°-90°)	14.2	0.1			G1/100
BL (0°-30°)	1358.5	7.4	B3/2500		
BM (30°-60°)	2286.1	12.5	B2/2500		
BH (60°-80°)	315.8	1.7	B1/500		G1/500
BVH (80°-90°)	14.1	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°	48°	55°	65°	75°	85°
0°	3490.5	3490.5	3490.5	3490.5	3490.5	3490.5	3490.5	3490.5	3490.5	3490.5	3490.5
2.5°	3553.8	3537.1	3537.1	3510.5	3540.4	3527.1	3537.1	3503.8	3537.1	3487.2	3527.1
5°	3570.4	3573.7	3560.4	3577.0	3577.0	3597.0	3563.7	3593.7	3610.3	3573.7	3557.1
7.5°	3656.9	3663.6	3660.2	3646.9	3673.5	3670.2	3666.9	3643.6	3650.3	3636.9	3617.0
10°	3826.6	3823.3	3839.9	3806.6	3786.7	3810.0	3816.6	3780.0	3753.4	3743.4	3680.2
12.5°	4072.8	4032.9	4009.6	3976.3	3986.3	3953.1	4012.9	3949.7	3936.4	3876.5	3813.3
15°	4272.5	4265.8	4269.2	4215.9	4156.0	4169.3	4169.3	4136.1	4116.1	4042.9	3953.1
17.5°	4681.8	4542.0	4572.0	4505.4	4455.5	4452.2	4422.2	4428.9	4375.6	4222.6	4086.2
20°	5001.2	4941.3	4894.7	4781.6	4705.1	4728.4	4715.0	4681.8	4665.1	4465.5	4272.5
22.5°	5287.4	5307.3	5230.8	5200.9	5094.4	5104.4	5131.0	5101.0	4974.6	4768.3	4482.1
25°	5690.0	5666.7	5563.6	5527.0	5427.1	5463.7	5566.9	5543.6	5463.7	5091.1	4645.2
27.5°	6165.8	6086.0	6105.9	5939.6	5843.1	5946.2	6069.3	6185.8	5959.5	5470.4	4838.2
30°	6501.9	6418.7	6412.1	6405.4	6382.1	6501.9	6645.0	6751.5	6568.5	5849.7	5157.6
32.5°	6668.3	6688.2	6744.8	6724.8	6927.8	7174.1	7323.8	7476.9	7247.3	6468.6	5580.2
35°	7110.8	6984.4	7110.8	7124.1	7333.8	7856.2	8045.9	8411.9	8355.3	7343.8	6096.0
37.5°	7370.4	7360.4	7377.0	7503.5	7706.5	8352.0	8621.5	8904.4	8797.9	7869.5	6738.2
40°	7799.6	7826.2	7822.9	7919.4	8142.4	8724.7	8834.5	9064.1	9074.1	8598.2	7683.2
42.5°	8488.4	8381.9	8312.1	8411.9	8724.7	9047.4	9267.0	9220.5	9549.9	9483.3	8897.7
45°	9107.3	9170.6	9067.4	9233.8	9346.9	9519.9	9513.3	9613.1	10032.4	10348.5	9812.8
47.5°	9686.3	9726.2	9776.2	9889.3	10135.5	10162.1	10105.6	10062.3	10641.3	10967.4	10521.5
50°	10032.4	10069.0	10301.9	10504.9	10964.1	11024.0	11057.2	10947.4	11340.1	11376.7	11190.3
52.5°	9939.2	9979.1	10305.2	10974.0	11706.1	12255.1	12155.3	11969.0	11945.7	12088.8	11809.2
55°	9114.0	9077.4	9526.6	10568.1	11939.0	13256.7	13270.0	13073.7	12697.7	12601.2	11716.1
56°	8411.9	8268.8	8841.1	10098.9	11639.5	13170.2	13319.9	13110.3	12757.6	12325.0	11140.4
57.5°	6891.2	7027.7	7596.7	8638.2	10604.7	12548.0	12634.5	12584.6	12318.4	11593.0	9802.8
60°	3800.0	4039.6	4542.0	5816.4	7550.1	9629.7	9699.6	10105.6	10155.5	8877.7	6744.8
62.5°	1613.8	1587.2	2109.6	3048.0	4299.1	5813.1	5942.9	6358.8	6435.4	5117.7	3384.1
65°	655.5	692.1	955.0	1534.0	2272.7	2648.7	2831.7	2968.1	3221.0	2113.0	1247.8
67.5°	432.6	429.2	562.3	875.1	1224.5	1181.3	1181.3	1247.8	1154.6	861.8	539.1
70°	309.5	319.4	402.6	605.6	762.0	565.7	542.4	519.1	589.0	569.0	435.9
72.5°	203.0	216.3	269.5	362.7	396.0	309.5	309.5	372.7	485.8	459.2	356.0
75°	133.1	136.4	166.4	209.6	196.3	159.7	176.4	249.6	352.7	339.4	252.9
77.5°	89.8	93.2	113.1	136.4	109.8	89.8	96.5	126.4	173.0	173.0	133.1
80°	33.3	36.6	46.6	43.3	49.9	63.2	69.9	86.5	103.2	103.2	89.8
82.5°	0.0	3.3	10.0	23.3	36.6	49.9	56.6	66.5	76.5	86.5	83.2
85°	0.0	3.3	10.0	16.6	26.6	29.9	33.3	23.3	20.0	20.0	16.6
87.5°	0.0	0.0	3.3	3.3	3.3	3.3	3.3	3.3	6.7	3.3	3.3
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°	3490.5	3490.5	3490.5	3490.5	3490.5	3490.5	3490.5	3490.5	3490.5	3490.5	3490.5
2.5°	3490.5	3487.2	3487.2	3477.2	3497.2	3487.2	3493.9	3490.5	3447.3	3480.6	3457.3
5°	3527.1	3550.4	3513.8	3507.2	3480.6	3490.5	3490.5	3457.3	3487.2	3483.9	3477.2
7.5°	3620.3	3580.4	3540.4	3500.5	3493.9	3483.9	3447.3	3434.0	3457.3	3430.6	3470.6
10°	3660.2	3666.9	3607.0	3553.8	3503.8	3434.0	3384.1	3354.1	3317.5	3357.4	3380.7
12.5°	3843.2	3776.7	3673.5	3590.4	3420.7	3350.8	3300.9	3287.6	3350.8	3364.1	3340.8
15°	3906.5	3896.5	3763.4	3577.0	3400.7	3317.5	3327.5	3300.9	3307.5	3274.2	3280.9
17.5°	4036.2	3923.1	3766.7	3533.8	3397.4	3377.4	3317.5	3211.0	3151.1	3124.5	3147.8
20°	4179.3	4069.5	3843.2	3550.4	3427.3	3374.1	3177.7	3048.0	2924.9	2858.3	2861.6
22.5°	4305.8	4169.3	3810.0	3557.1	3453.9	3234.3	2998.1	2741.8	2588.8	2485.6	2489.0
25°	4458.8	4265.8	3823.3	3570.4	3384.1	3011.4	2672.0	2422.4	2239.4	2169.5	2192.8
27.5°	4545.3	4325.7	3896.5	3600.3	3201.0	2695.3	2329.2	2096.3	1989.8	1956.6	1953.2
30°	4804.9	4458.8	3986.3	3540.4	2894.9	2355.9	2016.5	1873.4	1770.2	1740.3	1746.9
32.5°	5190.9	4701.7	4102.8	3384.1	2582.1	2053.1	1813.5	1707.0	1610.5	1553.9	1547.3
35°	5513.6	5117.7	4225.9	3141.1	2219.4	1820.1	1670.4	1537.3	1390.9	1327.7	1311.0
37.5°	6129.2	5586.8	4199.3	2775.1	1873.4	1647.1	1517.3	1354.3	1227.8	1141.3	1131.3
40°	6947.8	6135.9	4069.5	2329.2	1617.2	1494.0	1354.3	1197.9	1041.5	968.3	961.6
42.5°	7942.7	6808.0	3833.3	1876.7	1360.9	1341.0	1214.5	1034.8	895.1	841.9	845.2
45°	8751.3	7383.7	3593.7	1507.4	1171.3	1191.2	1081.4	911.7	815.2	772.0	772.0
47.5°	9470.0	7773.0	3334.1	1244.5	994.9	1041.5	945.0	845.2	762.0	728.7	722.1
50°	10162.1	8169.0	3074.6	1008.2	848.5	895.1	885.1	805.3	738.7	698.8	702.1
52.5°	10594.7	8232.2	2745.2	825.2	742.0	795.3	828.5	755.3	682.1	658.8	652.2
55°	10065.6	7417.0	2129.6	678.8	628.9	698.8	762.0	678.8	622.2	582.3	579.0
56°	9353.6	6631.7	1780.2	625.6	595.6	672.2	738.7	648.9	585.6	562.3	545.7
57.5°	7919.4	5427.1	1314.4	555.7	552.4	625.6	702.1	618.9	545.7	525.7	525.7
60°	4938.0	3054.6	795.3	465.8	479.2	555.7	632.2	552.4	485.8	485.8	495.8
62.5°	2249.4	1271.1	482.5	396.0	412.6	479.2	562.3	499.1	462.5	499.1	505.8
65°	765.3	549.0	349.4	316.1	326.1	396.0	482.5	505.8	502.5	525.7	539.1
67.5°	429.2	352.7	292.8	262.9	256.2	292.8	396.0	505.8	485.8	475.8	482.5
70°	362.7	299.5	259.5	232.9	222.9	236.3	306.1	382.7	342.7	332.7	326.1
72.5°	292.8	249.6	226.3	209.6	179.7	153.1	139.8	146.4	163.0	173.0	189.7
75°	206.3	189.7	189.7	169.7	129.8	96.5	76.5	63.2	43.3	29.9	33.3
77.5°	116.5	116.5	119.8	103.2	83.2	63.2	46.6	33.3	16.6	6.7	3.3
80°	79.9	86.5	93.2	83.2	69.9	56.6	39.9	23.3	10.0	0.0	0.0
82.5°	79.9	89.8	96.5	83.2	69.9	53.2	39.9	23.3	10.0	3.3	0.0
85°	16.6	20.0	23.3	26.6	39.9	39.9	29.9	20.0	10.0	3.3	0.0
87.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	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)