

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: P528050

Luminaire Tested: **GALN-SA3A-760-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528050
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-760-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11571 lumens
Efficiency: N/A
Efficacy: 124.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

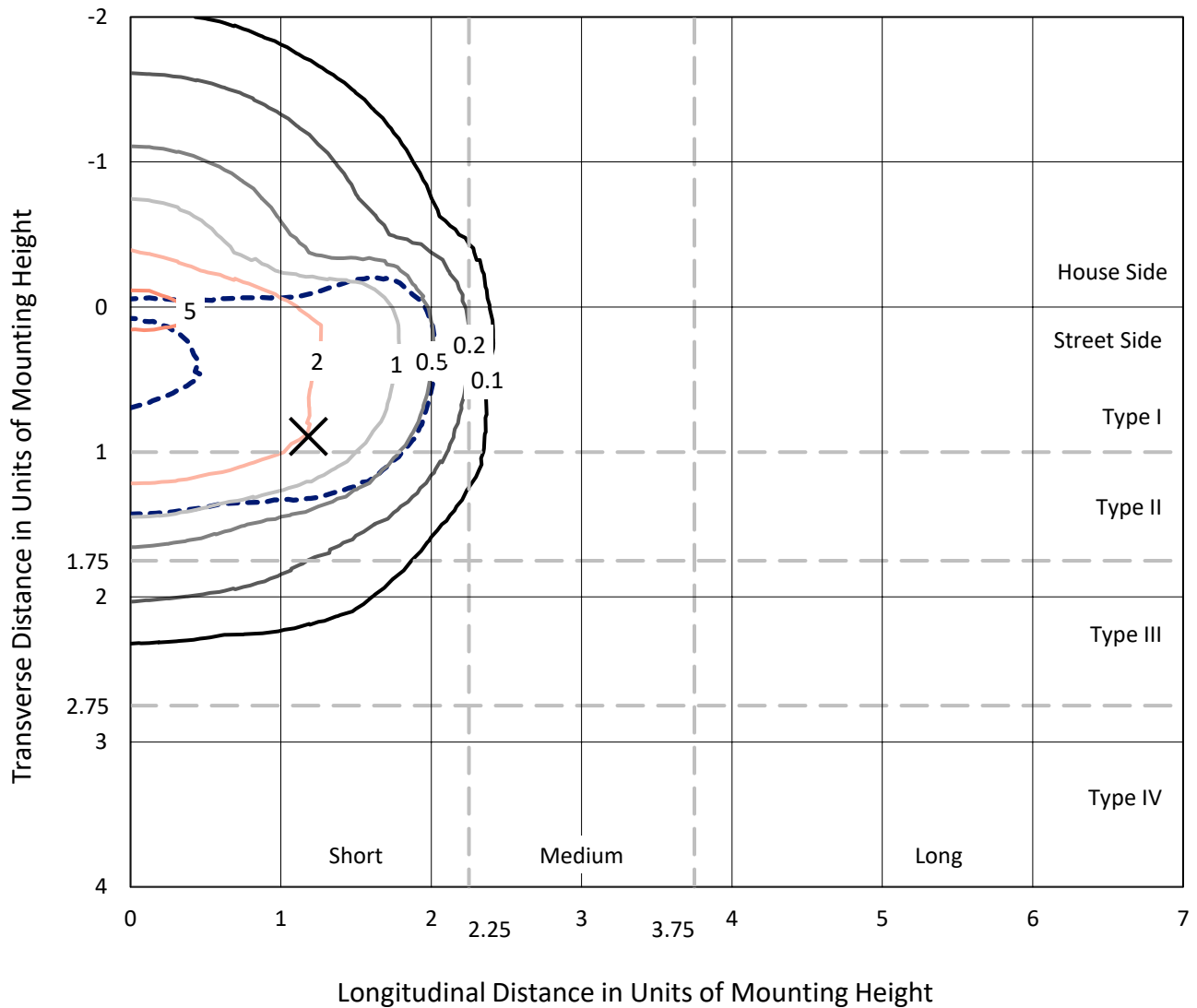
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

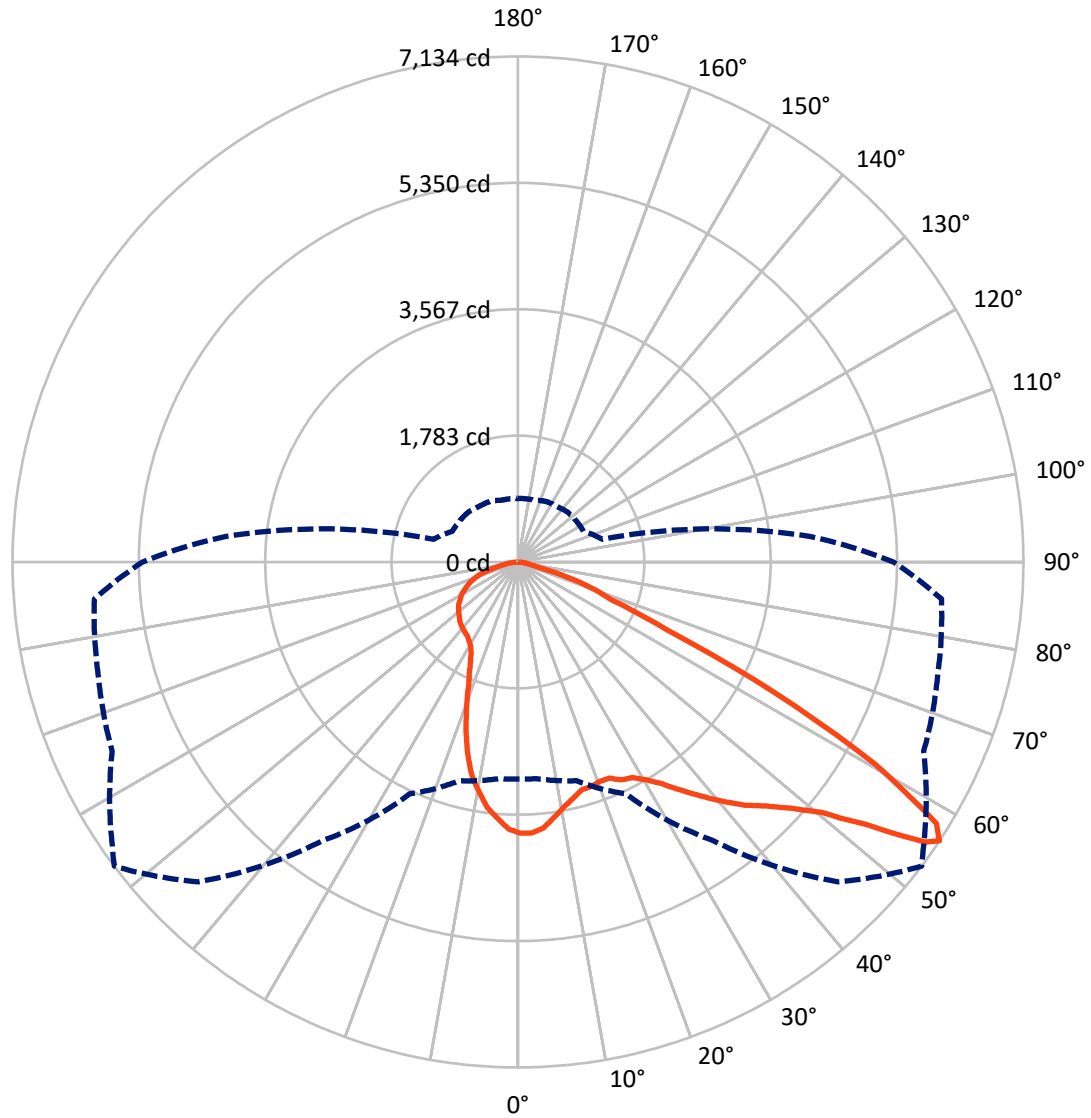
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3376.7	0.0	3376.7
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	8194.3	0.0	8194.3
	% Fixture	70.8	0.0	70.8
Total	Lumens	11571.0	0.0	11571.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.9	2.9
10°-20°	846.4	7.3
20°-30°	1248.1	10.8
30°-40°	1783.3	15.4
40°-50°	2454.5	21.2
50°-60°	2900.6	25.1
60°-70°	1545.8	13.4
70°-80°	392.2	3.4
80°-90°	61.2	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°	11571.0	100.0
0°-180°	11571.0	100.0

Coefficient of Utilization



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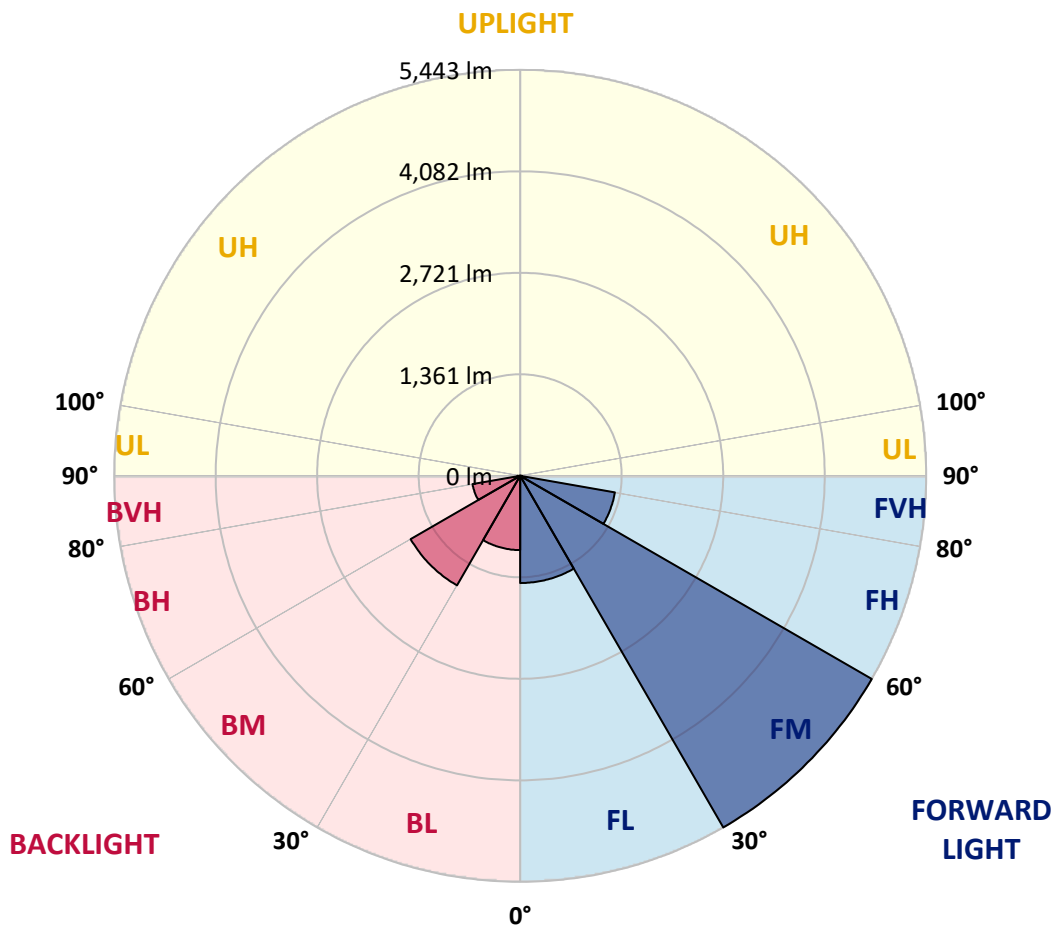
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1437.5	12.4			
FM (30°-60°)	5442.8	47.0			
FH (60°-80°)	1289.4	11.1			G1/1800
FVH (80°-90°)	24.6	0.2			G1/100
BL (0°-30°)	995.9	8.6	B2/1000		
BM (30°-60°)	1695.6	14.7	B2/2500		
BH (60°-80°)	648.5	5.6	B2/1000		G2/1000
BVH (80°-90°)	36.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	3828.1	3828.1	3828.1	3828.1	3828.1	3828.1	3828.1	3828.1	3828.1	3828.1	3828.1
2.5°	3780.6	3748.0	3767.3	3759.9	3820.7	3838.5	3829.6	3837.0	3871.2	3854.9	3820.7
5°	3532.8	3578.8	3587.7	3609.9	3645.6	3715.3	3770.3	3785.1	3801.4	3877.1	3869.7
7.5°	3307.1	3338.3	3322.0	3387.3	3464.5	3577.3	3644.1	3656.0	3805.9	3847.4	3878.6
10°	3164.6	3133.5	3207.7	3225.5	3313.1	3442.2	3522.4	3571.3	3707.9	3872.7	3892.0
12.5°	3032.5	3022.1	3066.7	3117.1	3215.1	3348.7	3430.3	3449.6	3660.4	3834.1	3924.6
15°	2934.6	2922.7	2967.2	3004.3	3118.6	3237.4	3341.3	3396.2	3608.5	3811.8	3896.4
17.5°	2857.4	2855.9	2881.1	2947.9	3065.2	3164.6	3332.4	3335.3	3581.7	3846.0	3920.2
20°	2852.9	2851.4	2855.9	2930.1	3037.0	3158.7	3304.2	3330.9	3581.7	3822.2	3921.7
22.5°	2890.0	2866.3	2893.0	2940.5	3017.7	3169.1	3314.6	3373.9	3667.8	3939.5	3988.5
25°	2949.4	2955.3	2970.2	2986.5	3031.0	3192.8	3406.6	3455.6	3768.8	4040.4	4080.5
27.5°	3057.8	3054.8	3060.7	3069.6	3108.2	3215.1	3443.7	3569.9	3979.5	4220.0	4179.9
30°	3216.6	3206.2	3229.9	3261.1	3225.5	3286.4	3566.9	3661.9	4175.5	4401.1	4291.3
32.5°	3360.6	3399.2	3443.7	3457.1	3414.0	3425.9	3730.2	3826.7	4338.8	4623.8	4427.8
35°	3540.2	3571.3	3630.7	3672.3	3664.9	3629.2	3952.8	4080.5	4574.8	4787.0	4571.8
37.5°	3715.3	3752.4	3850.4	3973.6	3905.3	3889.0	4190.3	4295.7	4647.5	4874.6	4677.2
40°	3997.4	3995.9	4165.1	4228.9	4289.8	4261.6	4436.7	4472.4	4686.1	4855.3	4680.2
42.5°	4328.4	4307.6	4479.8	4579.2	4657.9	4660.9	4693.5	4681.6	4703.9	4757.3	4649.0
45°	4643.1	4687.6	4861.3	5039.4	5118.0	5127.0	4910.2	4888.0	4735.1	4729.1	4589.6
47.5°	5027.5	5037.9	5180.4	5414.9	5597.5	5535.1	5190.8	5141.8	4871.6	4917.7	4689.1
50°	5049.8	5127.0	5254.6	5530.7	6091.8	6075.5	5554.4	5462.4	5091.3	5184.8	4966.6
52.5°	4583.7	4565.9	4717.3	5168.5	6054.7	6612.8	6157.1	5937.4	5563.3	5492.1	5416.4
55°	3492.7	3534.2	3667.8	4123.5	5257.6	6620.2	6977.9	6798.3	6068.0	5946.3	5858.7
56°	3063.7	3069.6	3195.8	3611.4	4797.4	6384.2	7133.8	6988.3	6318.9	6133.3	5999.7
57.5°	2539.7	2505.6	2570.9	2798.0	4049.3	5885.5	6963.1	7105.6	6612.8	6335.2	6149.7
60°	1999.4	1992.0	1965.3	2006.8	2559.0	4433.8	5796.4	6117.0	6583.1	6145.2	5889.9
62.5°	1632.8	1595.7	1649.1	1708.5	1778.3	2750.5	4073.1	4261.6	5226.4	4905.8	4424.9
65°	1266.2	1248.3	1315.1	1508.1	1549.7	1747.1	2320.0	2465.5	3086.0	3031.0	2668.9
67.5°	871.3	874.3	932.2	1226.1	1436.9	1419.0	1420.5	1496.2	1610.5	1196.4	1042.0
70°	552.2	550.7	581.9	789.7	1156.3	1168.2	1108.8	1086.5	1030.1	623.4	660.5
72.5°	354.8	344.4	360.7	436.4	598.2	691.7	712.5	725.8	596.7	489.8	531.4
75°	200.4	190.0	184.1	203.4	236.0	273.1	299.8	308.7	345.9	371.1	393.4
77.5°	60.9	54.9	66.8	89.1	117.3	157.3	191.5	197.4	233.0	262.7	285.0
80°	26.7	29.7	41.6	59.4	83.1	111.3	135.1	144.0	167.7	190.0	195.9
82.5°	16.3	17.8	28.2	40.1	57.9	78.7	96.5	99.5	123.2	141.0	145.5
85°	5.9	7.4	14.8	23.7	37.1	50.5	50.5	54.9	50.5	50.5	54.9
87.5°	0.0	0.0	1.5	3.0	3.0	4.5	5.9	5.9	7.4	8.9	10.4
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°	3828.1	3828.1	3828.1	3828.1	3828.1	3828.1	3828.1	3828.1	3828.1	3828.1	3828.1
2.5°	3838.5	3831.1	3819.2	3776.2	3771.7	3758.4	3684.2	3672.3	3684.2	3648.5	3651.5
5°	3831.1	3853.4	3764.3	3721.3	3641.1	3583.2	3516.4	3482.3	3421.4	3382.8	3425.9
7.5°	3863.8	3854.9	3743.5	3650.0	3529.8	3382.8	3265.6	3198.8	3091.9	3062.2	3084.5
10°	3851.9	3804.4	3673.8	3550.6	3323.5	3194.3	3004.3	2820.3	2719.3	2667.4	2660.0
12.5°	3835.6	3822.2	3604.0	3391.7	3152.8	2881.1	2613.9	2440.3	2275.5	2204.3	2214.7
15°	3854.9	3742.1	3473.4	3204.7	2887.1	2530.8	2242.9	2018.7	1904.4	1858.4	1858.4
17.5°	3846.0	3703.5	3411.0	2995.4	2593.2	2171.6	1855.4	1720.4	1672.9	1672.9	1686.2
20°	3850.4	3728.7	3284.9	2786.1	2245.8	1828.7	1598.6	1549.7	1570.4	1577.9	1585.3
22.5°	3875.6	3645.6	3161.7	2556.1	1923.7	1564.5	1451.7	1453.2	1490.3	1530.4	1522.9
25°	3906.8	3612.9	3011.7	2327.5	1677.3	1435.4	1399.7	1395.3	1423.5	1444.3	1447.2
27.5°	3880.1	3556.5	2858.9	2042.5	1475.4	1349.3	1341.9	1344.8	1353.7	1395.3	1381.9
30°	3967.7	3572.8	2667.4	1803.5	1364.1	1321.1	1312.2	1307.7	1321.1	1332.9	1322.6
32.5°	4076.0	3514.9	2524.9	1573.4	1309.2	1300.3	1282.5	1276.5	1284.0	1272.1	1278.0
35°	4123.5	3504.6	2339.3	1408.6	1266.2	1258.7	1248.3	1246.9	1248.3	1237.9	1229.0
37.5°	4150.2	3553.5	2127.1	1332.9	1239.4	1246.9	1223.1	1220.1	1193.4	1199.4	1203.8
40°	4196.3	3477.8	1954.9	1260.2	1223.1	1208.3	1187.5	1183.0	1165.2	1154.8	1165.2
42.5°	4129.5	3455.6	1785.7	1229.0	1199.4	1183.0	1168.2	1143.0	1137.0	1128.1	1122.2
45°	4076.0	3327.9	1634.3	1190.4	1171.2	1162.2	1134.0	1107.3	1085.1	1094.0	1080.6
47.5°	4116.1	3283.4	1484.4	1157.8	1132.6	1122.2	1094.0	1073.2	1050.9	1040.5	1037.6
50°	4276.4	3366.5	1358.2	1134.0	1099.9	1094.0	1056.9	1033.1	1012.3	1004.9	1007.9
52.5°	4659.4	3593.6	1272.1	1085.1	1068.7	1042.0	1021.2	991.5	978.2	954.4	969.3
55°	5144.8	3963.2	1249.8	1039.0	1030.1	1006.4	978.2	955.9	930.7	911.4	906.9
56°	5300.6	4139.9	1232.0	1021.2	1006.4	993.0	955.9	942.6	902.5	898.0	895.1
57.5°	5426.8	4295.7	1235.0	987.1	972.3	960.4	938.1	905.5	878.7	862.4	869.8
60°	5141.8	4021.1	1178.6	935.1	932.2	909.9	878.7	863.9	831.2	811.9	807.5
62.5°	3822.2	2729.7	955.9	868.3	866.9	843.1	807.5	791.2	785.2	758.5	758.5
65°	2201.3	1711.5	826.8	813.4	801.5	777.8	742.2	728.8	714.0	705.1	697.6
67.5°	939.6	887.6	751.1	749.6	736.2	706.6	670.9	650.1	630.8	613.0	621.9
70°	681.3	691.7	678.3	670.9	654.6	617.5	586.3	561.1	531.4	519.5	528.4
72.5°	540.3	562.6	581.9	583.4	564.1	521.0	486.9	452.7	420.1	403.7	411.2
75°	409.7	424.5	443.8	448.3	420.1	390.4	357.7	322.1	296.9	277.6	280.5
77.5°	295.4	292.4	310.2	307.3	293.9	273.1	243.4	210.8	182.6	164.8	166.2
80°	201.9	206.3	216.7	215.2	198.9	185.5	163.3	136.6	115.8	100.9	98.0
82.5°	141.0	148.4	157.3	149.9	136.6	123.2	106.9	87.6	71.2	59.4	56.4
85°	50.5	57.9	66.8	71.2	75.7	72.7	60.9	49.0	35.6	29.7	28.2
87.5°	10.4	11.9	13.4	13.4	13.4	11.9	10.4	10.4	8.9	4.5	4.5
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)