

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: P452534

Luminaire Tested: **GALN-SA3C-727-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452534
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3C-727-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17962 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

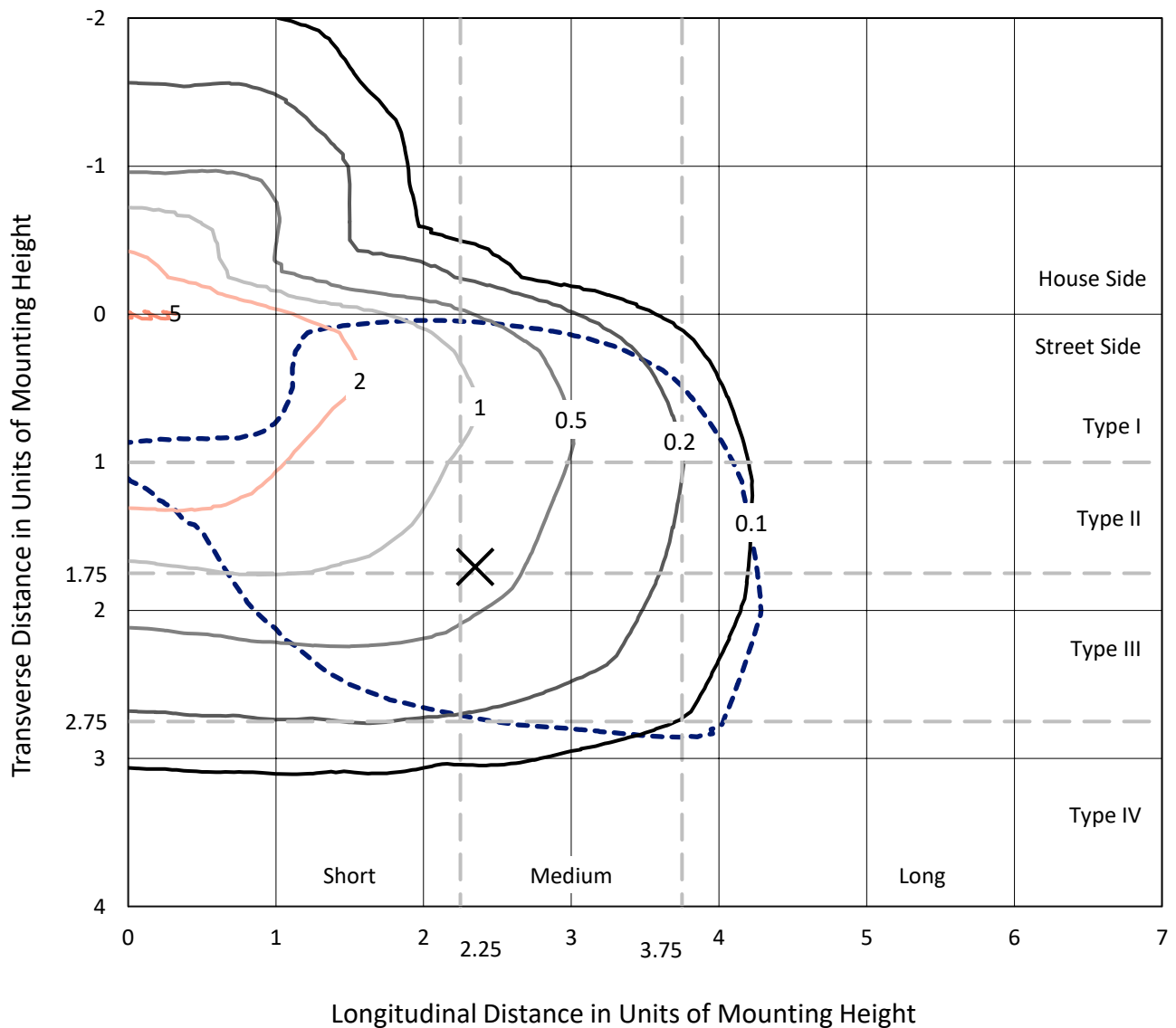
Input Watts (W): 160
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

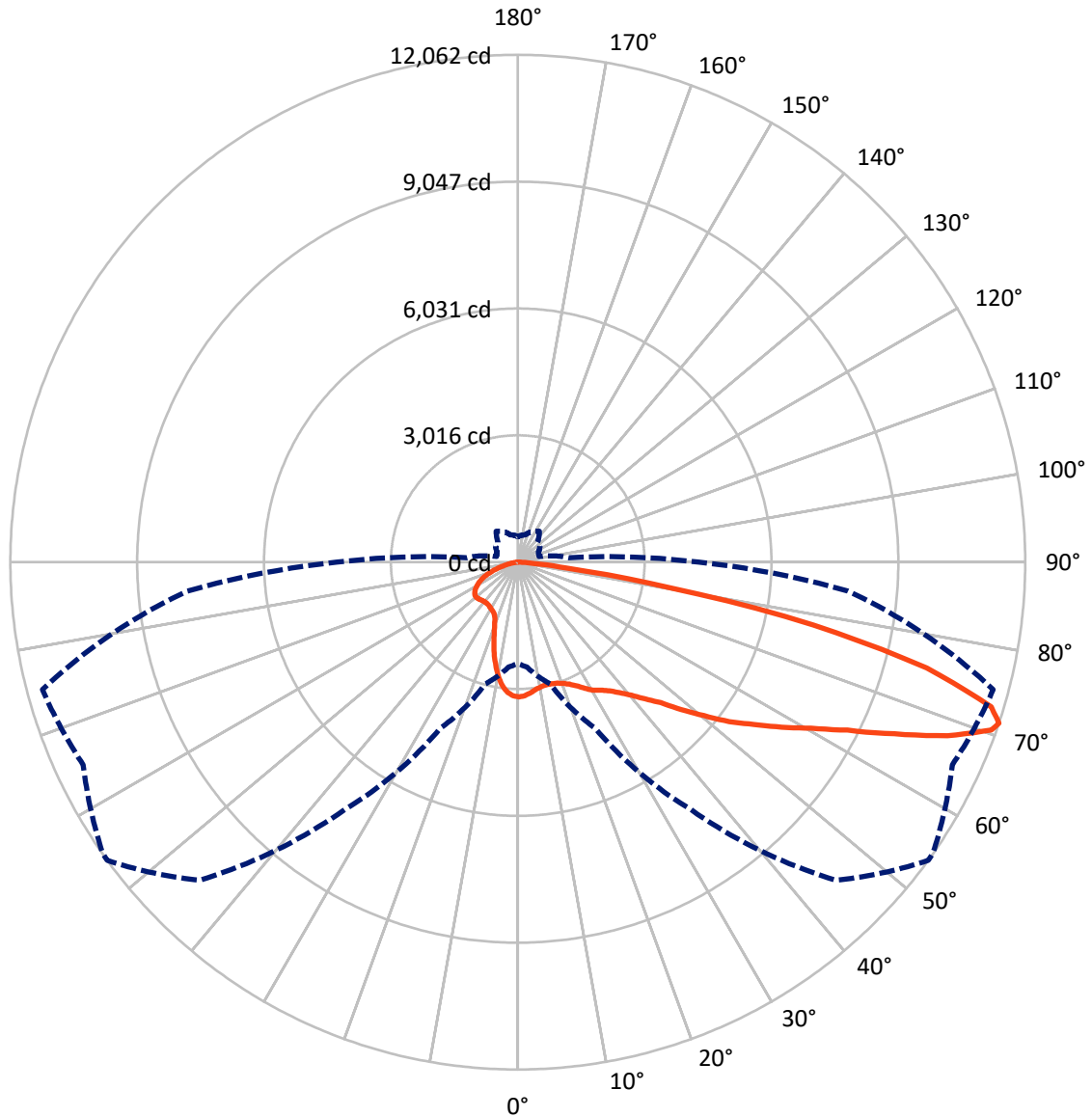
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3242.9	0.0	3242.9
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	14719.1	0.0	14719.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	17962.0	0.0	17962.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.6	1.6
10°-20°	754.1	4.2
20°-30°	1255.6	7.0
30°-40°	1856.6	10.3
40°-50°	2615.1	14.6
50°-60°	3501.7	19.5
60°-70°	4413.7	24.6
70°-80°	3014.5	16.8
80°-90°	265.1	1.5
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°	17962.0	100.0
0°-180°	17962.0	100.0

Coefficient of Utilization



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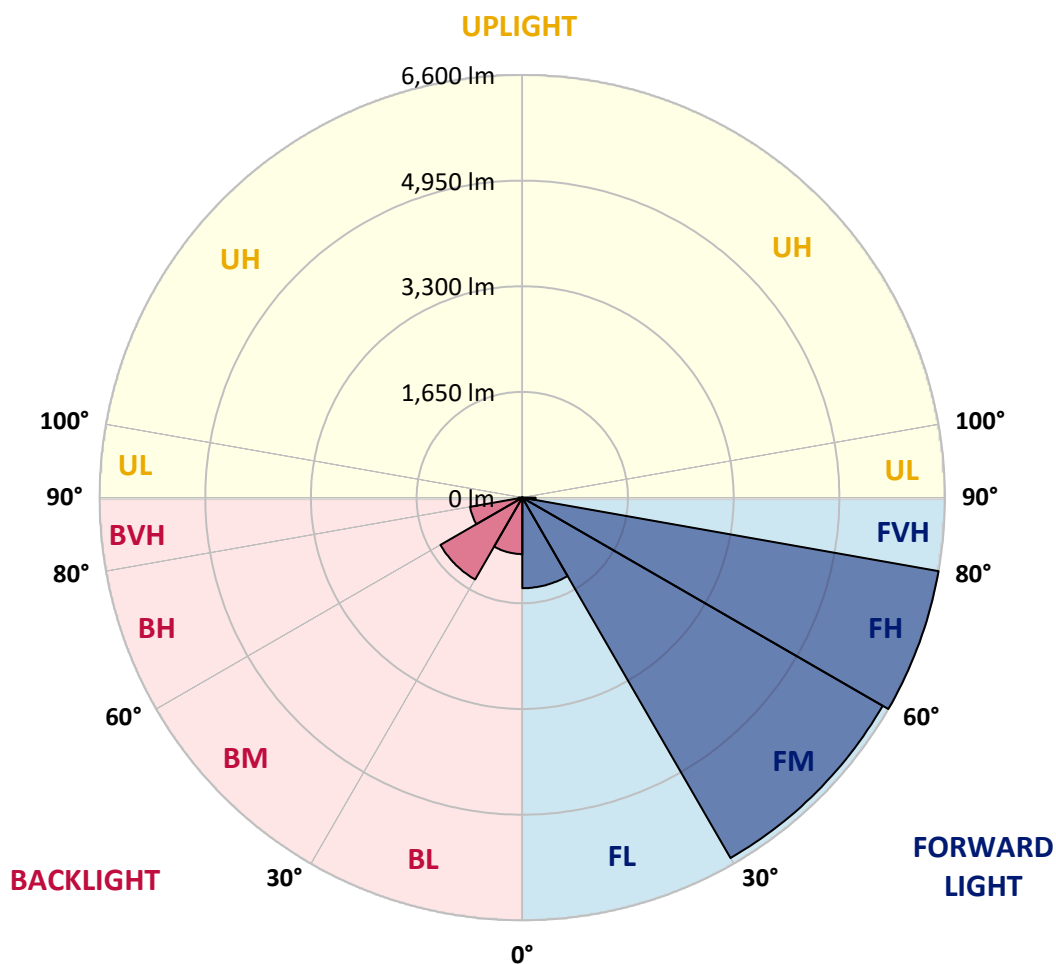
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1413.9	7.9			
FM	(30°-60°)	6498.0	36.2			
FH	(60°-80°)	6599.9	36.7			G3/7500
FVH	(80°-90°)	207.2	1.2			G2/225
BL	(0°-30°)	881.4	4.9	B2/1000		
BM	(30°-60°)	1475.4	8.2	B2/2500		
BH	(60°-80°)	828.2	4.6	B2/1000		G2/1000
BVH	(80°-90°)	57.9	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-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3204.7	3204.7	3204.7	3204.7	3204.7	3204.7	3204.7	3204.7	3204.7	3204.7	3204.7
2.5°	3096.0	3110.6	3114.5	3124.2	3144.5	3161.0	3177.5	3175.6	3198.9	3208.6	3217.3
5°	2958.2	2962.1	2976.7	2996.1	3032.0	3077.6	3122.2	3123.2	3180.4	3226.0	3248.3
7.5°	2857.3	2870.0	2879.7	2900.0	2937.9	2987.4	3058.2	3064.0	3165.9	3256.1	3303.7
10°	2791.4	2805.9	2816.6	2841.8	2879.7	2935.0	3011.6	3022.3	3155.2	3303.7	3387.1
12.5°	2731.2	2745.8	2755.5	2788.5	2837.9	2905.9	2992.2	3004.8	3159.1	3359.0	3478.3
15°	2768.1	2779.7	2775.8	2785.5	2818.5	2896.2	3000.0	3012.6	3173.6	3412.3	3568.5
17.5°	2932.1	2941.8	2909.7	2872.9	2857.3	2914.6	3024.2	3037.8	3202.7	3467.6	3660.7
20°	3173.6	3199.8	3130.0	3047.5	2972.8	2980.6	3074.7	3089.2	3243.5	3522.9	3754.8
22.5°	3488.0	3507.4	3422.0	3286.2	3148.4	3077.6	3150.4	3159.1	3304.6	3594.7	3857.7
25°	3857.7	3869.3	3750.9	3576.3	3377.4	3243.5	3254.2	3269.7	3405.5	3676.2	3948.9
27.5°	4216.6	4253.5	4116.7	3903.3	3641.3	3418.1	3396.8	3406.5	3515.2	3721.8	4011.9
30°	4642.6	4639.7	4495.1	4247.7	3912.0	3608.3	3531.7	3529.7	3574.3	3744.1	4057.5
32.5°	4982.2	5021.9	4880.3	4610.6	4221.5	3805.3	3624.8	3620.9	3619.9	3782.9	4125.4
35°	5368.3	5374.1	5244.1	4972.5	4556.2	4052.7	3754.8	3735.4	3713.1	3866.4	4217.6
37.5°	5713.7	5740.9	5621.5	5316.9	4885.1	4309.8	3933.3	3920.7	3852.8	4011.0	4365.1
40°	5983.4	6003.8	5932.0	5641.9	5209.2	4587.3	4160.4	4137.1	4054.6	4247.7	4562.0
42.5°	6071.7	6113.5	6141.6	5999.0	5581.8	4916.2	4439.8	4410.7	4347.6	4606.7	4789.1
45°	6078.5	6144.5	6292.9	6299.7	5956.3	5310.1	4765.8	4745.4	4740.6	5066.6	5108.3
47.5°	6027.1	6094.0	6343.4	6478.3	6290.0	5707.9	5236.4	5204.3	5207.3	5635.1	5466.3
50°	5902.9	5982.5	6285.2	6592.7	6551.0	6121.2	5733.1	5722.4	5782.6	6284.2	5837.9
52.5°	5669.1	5765.1	6225.0	6664.5	6745.1	6477.3	6297.8	6267.7	6420.0	6988.6	6244.4
55°	5021.9	5166.5	6004.8	6704.3	6929.4	6817.8	6806.2	6860.5	7062.3	7757.0	6691.7
57.5°	4684.3	4793.0	5526.5	6711.1	7162.3	7213.7	7400.0	7413.6	7766.7	8573.0	7197.2
60°	4500.0	4596.0	5264.5	6666.5	7487.3	7703.7	8007.4	8055.9	8454.6	9456.9	7721.1
62.5°	4338.9	4421.4	5107.3	6512.2	7854.1	8430.4	8794.2	8817.5	9235.7	10432.9	8238.3
65°	3959.5	4053.6	4791.0	6358.0	8170.4	9338.5	9838.2	9811.0	10067.2	11275.1	8562.3
67.5°	3448.2	3567.6	4200.1	5825.3	8326.6	10331.1	11014.1	10980.2	10888.0	11827.2	8655.5
70°	2795.2	2859.3	3444.3	4904.5	7702.7	10852.1	11942.6	11906.7	11396.4	11899.9	8215.0
71°	2405.2	2505.1	2999.0	4356.4	7183.6	10693.0	12062.0	12052.3	11397.4	11699.1	7883.2
72.5°	1877.4	1938.5	2375.1	3375.4	6105.7	9788.7	11767.0	11803.9	11149.9	11141.2	7199.1
75°	1187.6	1214.7	1490.3	1987.0	3350.2	6932.3	10044.8	10144.8	9900.3	9119.2	5353.8
77.5°	689.8	724.8	892.6	1171.1	1447.6	3762.6	7187.5	7296.2	6879.0	5021.0	2191.8
80°	401.7	440.5	588.0	680.1	664.6	1396.2	3659.7	3845.0	2978.6	1268.1	615.1
82.5°	223.2	249.4	413.3	414.3	354.1	456.0	1151.7	1205.0	849.9	511.3	251.3
85°	162.0	183.4	266.8	241.6	169.8	196.0	400.7	420.1	343.5	215.4	81.5
87.5°	57.2	81.5	146.5	116.4	46.6	40.7	115.5	94.1	87.3	60.2	18.4
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°	3204.7	3204.7	3204.7	3204.7	3204.7	3204.7	3204.7	3204.7	3204.7	3204.7	3204.7
2.5°	3222.2	3224.1	3214.4	3196.9	3179.5	3157.1	3131.9	3112.5	3103.8	3102.8	3101.8
5°	3257.1	3261.9	3225.1	3170.7	3110.6	3036.8	2973.8	2902.0	2883.5	2854.4	2863.2
7.5°	3313.4	3310.4	3237.7	3122.2	2981.5	2825.3	2693.4	2616.7	2537.2	2514.8	2515.8
10°	3393.9	3375.4	3237.7	3023.3	2788.5	2556.6	2372.2	2255.8	2192.7	2140.3	2120.9
12.5°	3479.3	3432.7	3206.6	2884.5	2540.1	2255.8	2057.9	1900.7	1859.9	1817.3	1818.2
15°	3560.8	3483.1	3145.5	2689.5	2272.3	1934.6	1742.5	1648.4	1635.8	1640.7	1639.7
17.5°	3634.5	3519.0	3052.4	2472.2	1959.9	1659.1	1557.2	1564.0	1598.0	1622.2	1625.1
20°	3709.2	3540.4	2913.6	2181.1	1664.9	1492.2	1496.1	1549.5	1600.9	1633.9	1638.7
22.5°	3780.0	3550.1	2750.6	1899.7	1451.5	1421.4	1478.6	1535.9	1586.3	1618.4	1623.2
25°	3826.6	3527.8	2519.7	1605.7	1346.7	1396.2	1456.3	1504.8	1547.5	1580.5	1588.3
27.5°	3839.2	3456.0	2233.5	1368.0	1298.2	1371.9	1427.2	1463.1	1496.1	1527.2	1533.0
30°	3832.4	3350.2	1919.1	1228.3	1270.0	1343.8	1386.5	1412.7	1452.4	1476.7	1481.5
32.5°	3821.8	3227.0	1591.2	1153.6	1246.8	1317.6	1342.8	1366.1	1365.1	1355.4	1362.2
35°	3825.6	3079.5	1325.3	1109.0	1226.4	1298.2	1319.5	1290.4	1207.0	1203.1	1199.2
37.5°	3846.0	2934.0	1132.3	1077.9	1215.7	1295.3	1306.9	1173.0	1099.3	1065.3	1056.6
40°	3898.4	2764.2	1005.2	1054.6	1214.7	1317.6	1249.7	1113.8	972.2	906.2	901.3
42.5°	3968.3	2597.3	927.5	1040.1	1226.4	1351.5	1226.4	1030.4	876.1	837.3	831.5
45°	4072.1	2406.2	884.9	1033.3	1243.8	1364.2	1218.6	969.3	837.3	806.3	806.3
47.5°	4189.5	2223.8	861.6	1028.4	1266.2	1355.4	1149.7	949.9	818.9	822.8	841.2
50°	4305.9	2065.6	844.1	1017.8	1285.6	1350.6	1121.6	948.9	823.7	873.2	906.2
52.5°	4440.8	1954.1	822.8	1000.3	1285.6	1319.5	1112.9	968.3	837.3	851.9	866.4
55°	4603.8	1919.1	795.6	962.5	1262.3	1241.9	1108.0	996.4	847.0	813.1	818.9
57.5°	4819.2	1975.4	769.4	914.9	1208.9	1161.4	1106.1	1004.2	824.7	796.6	790.7
60°	5069.5	2087.0	761.6	866.4	1136.1	1092.5	1094.4	981.9	793.7	764.5	769.4
62.5°	5245.1	2153.9	756.8	829.6	1056.6	1016.8	1066.3	954.7	780.1	754.8	759.7
65°	5245.1	2072.4	712.2	773.3	953.7	925.6	1032.3	920.8	762.6	733.5	728.6
67.5°	5046.2	1834.7	644.2	688.9	840.2	821.8	984.8	880.0	736.4	714.1	702.5
70°	4528.1	1391.3	558.9	589.9	696.6	713.1	923.7	824.7	692.7	665.6	648.1
71°	4300.1	1211.8	523.0	539.5	641.3	665.6	894.6	801.4	673.3	634.5	603.5
72.5°	3860.6	1020.7	468.6	475.4	548.2	591.8	833.4	756.8	636.5	581.2	546.2
75°	2933.0	745.1	377.4	373.5	405.6	469.6	705.4	674.3	557.9	483.2	462.8
77.5°	1267.1	405.6	282.3	285.2	275.5	356.1	555.0	579.2	478.3	392.9	374.5
80°	384.2	233.8	193.1	197.0	184.3	238.7	391.0	454.1	384.2	305.6	280.4
82.5°	197.0	139.7	132.0	130.0	117.4	134.9	236.7	310.5	274.6	191.1	168.8
85°	85.4	74.7	65.0	63.1	55.3	48.5	84.4	155.2	145.5	106.7	101.9
87.5°	21.3	19.4	12.6	11.6	6.8	1.0	0.0	0.0	0.0	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)