

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: P454384

Luminaire Tested: **GALN-SA5C-727-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454384
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5C-727-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29612 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

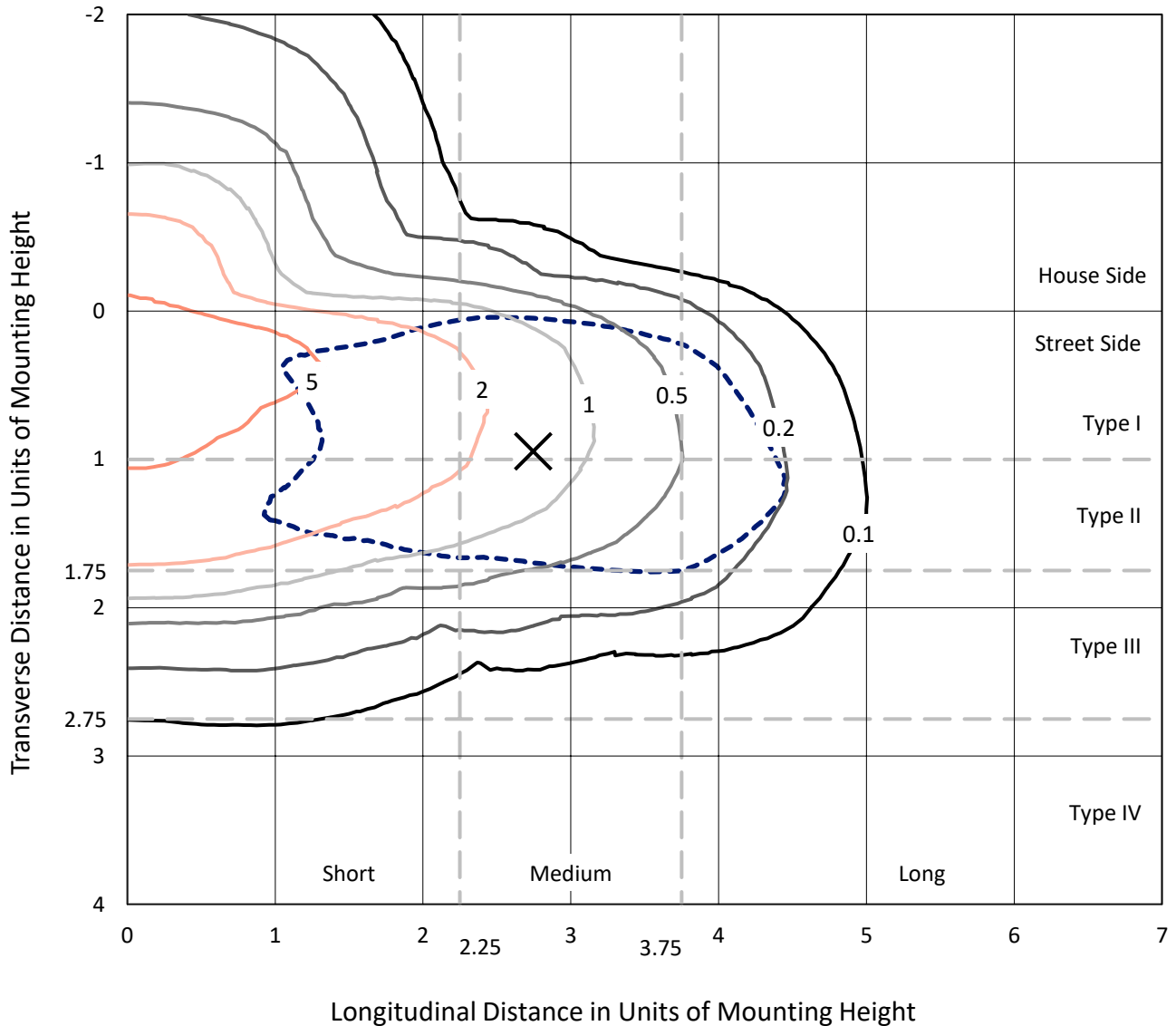
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

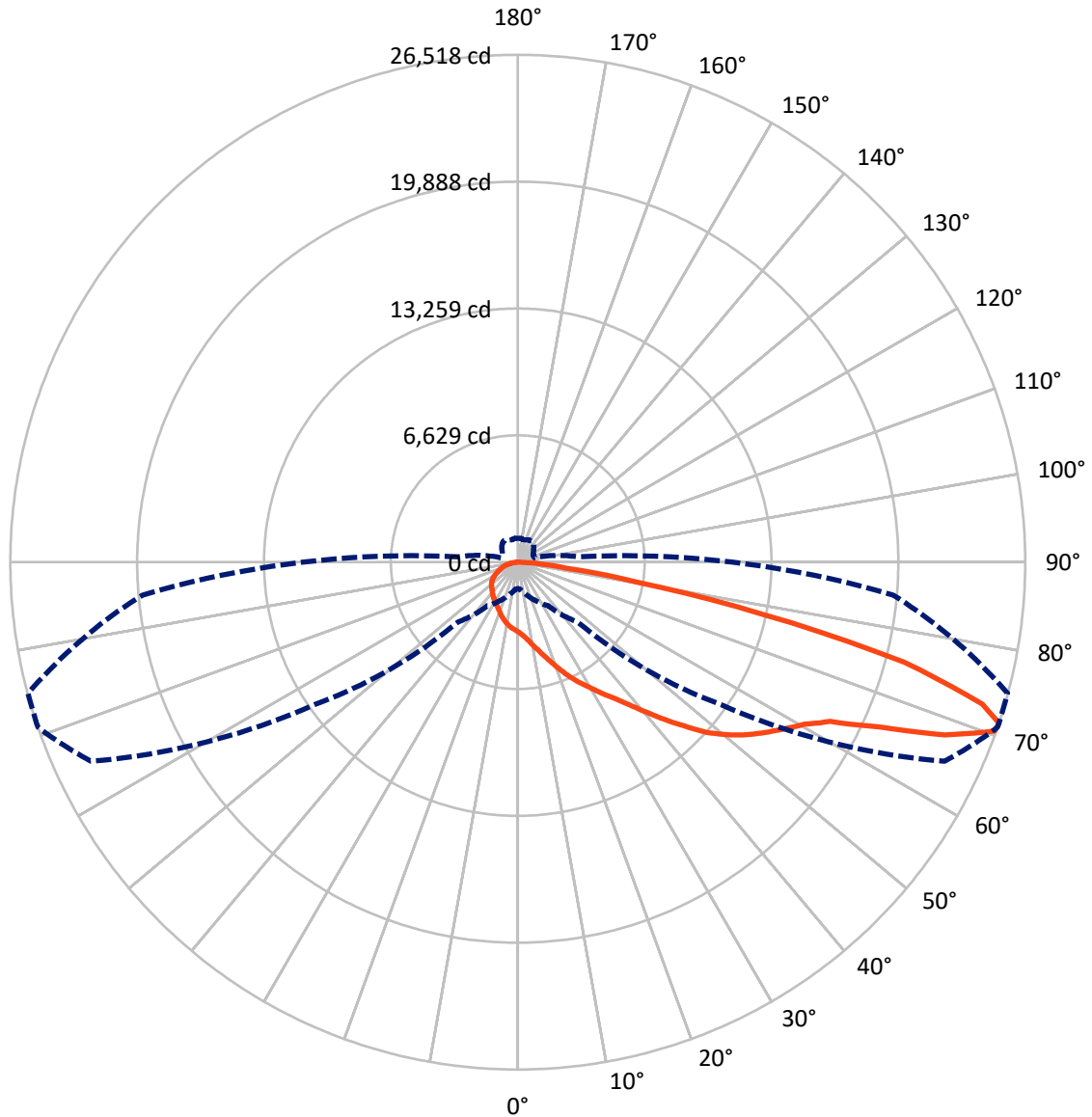
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5325.6	0.0	5325.6
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	24286.4	0.0	24286.4
	% Fixture	82.0	0.0	82.0
Total	Lumens	29612.0	0.0	29612.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.9	1.2
10°-20°	1185.6	4.0
20°-30°	2071.9	7.0
30°-40°	3081.6	10.4
40°-50°	4540.4	15.3
50°-60°	6356.6	21.5
60°-70°	7109.6	24.0
70°-80°	4342.8	14.7
80°-90°	558.7	1.9
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°	29612.0	100.0
0°-180°	29612.0	100.0

Coefficient of Utilization



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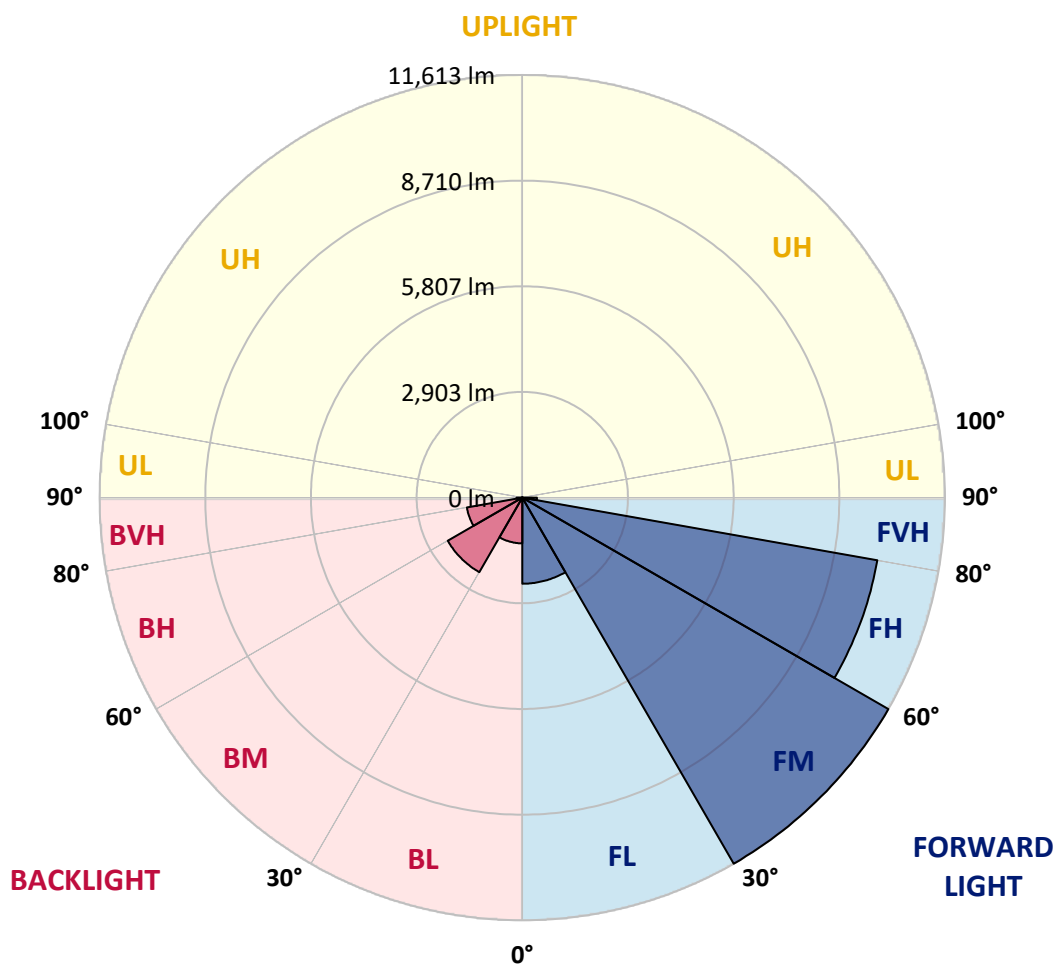
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2366.0	8.0			
FM	(30°-60°)	11613.2	39.2			
FH	(60°-80°)	9905.1	33.4			G4/12000
FVH	(80°-90°)	402.0	1.4			G3/500
BL	(0°-30°)	1256.3	4.2	B3/2500		
BM	(30°-60°)	2365.3	8.0	B2/2500		
BH	(60°-80°)	1547.3	5.2	B3/2500		G3/2500
BVH	(80°-90°)	156.7	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	3634.3	3634.3	3634.3	3634.3	3634.3	3634.3	3634.3	3634.3	3634.3	3634.3	3634.3
2.5°	4034.7	4015.1	4016.8	3989.1	3953.3	3914.2	3858.9	3810.1	3771.0	3748.2	3681.5
5°	4470.8	4451.3	4426.9	4366.7	4340.6	4244.6	4122.5	4011.9	3927.2	3880.0	3746.6
7.5°	4824.0	4819.1	4812.6	4778.4	4711.7	4578.3	4474.1	4282.0	4156.7	4067.2	3839.4
10°	5042.1	5050.2	5055.1	5061.6	5034.0	4964.0	4820.8	4578.3	4418.8	4304.8	3959.8
12.5°	5152.8	5160.9	5188.6	5248.8	5286.2	5278.1	5160.9	4923.3	4703.6	4553.8	4088.4
15°	5221.1	5234.2	5283.0	5362.7	5488.1	5567.8	5510.8	5291.1	5050.2	4872.8	4241.4
17.5°	5296.0	5310.7	5364.4	5478.3	5642.7	5815.2	5877.0	5688.2	5426.2	5214.6	4412.3
20°	5338.3	5357.9	5434.3	5584.1	5776.1	6026.8	6231.8	6132.6	5846.1	5611.7	4609.2
22.5°	5406.7	5423.0	5488.1	5647.6	5877.0	6191.1	6586.6	6565.5	6313.2	6010.5	4825.6
25°	5592.2	5618.3	5650.8	5746.8	5968.2	6358.8	6881.2	7027.7	6765.7	6427.1	5024.2
27.5°	5942.1	5963.3	5961.7	5974.7	6100.0	6503.6	7136.7	7485.0	7214.9	6848.7	5216.3
30°	6340.9	6349.0	6355.5	6326.2	6353.9	6651.7	7371.1	7937.5	7667.3	7281.6	5383.9
32.5°	6825.9	6842.2	6786.8	6712.0	6689.2	6871.5	7564.8	8390.0	8202.8	7721.0	5549.9
35°	7398.8	7441.1	7328.8	7197.0	7104.2	7187.2	7825.2	8852.2	8751.3	8282.5	5769.6
37.5°	8053.1	8105.1	8001.0	7742.2	7610.4	7633.1	8165.4	9423.4	9444.6	8922.2	6096.8
40°	8588.5	8656.9	8660.1	8293.9	8093.7	8119.8	8596.6	10038.6	10281.1	9713.1	6482.5
42.5°	8941.7	9008.4	9078.4	8863.6	8653.6	8801.7	9099.6	10705.9	11221.9	10673.4	7021.2
45°	9329.0	9389.3	9428.3	9330.7	9213.5	9597.6	9706.6	11415.5	12224.4	11745.9	7610.4
47.5°	9778.2	9845.0	9882.4	9789.6	9745.7	10295.8	10360.9	12077.9	13295.3	12787.6	8261.4
50°	10377.2	10427.6	10408.1	10349.5	10339.7	10831.3	10989.1	12698.0	14179.1	13908.9	8936.8
52.5°	11122.6	11182.8	11204.0	11121.0	11083.5	11213.7	11495.3	13262.8	14983.1	14872.4	9657.8
55°	11573.4	11669.4	11991.7	12121.9	12211.4	11708.5	12040.5	13886.1	15704.1	15888.0	10432.5
57.5°	10995.6	11119.3	11840.3	12491.3	13332.8	12945.4	12813.6	14537.2	16425.1	16872.7	11360.2
60°	9586.2	9613.9	10543.2	11742.7	13435.3	14535.5	14426.5	15572.3	17206.3	17865.5	12582.5
62.5°	6650.1	6708.7	7807.3	9721.3	12169.1	15108.4	17170.5	17359.3	18326.1	19351.4	14374.4
65°	3429.2	3352.7	4353.7	6109.8	9174.4	13747.8	19393.7	20645.3	20754.3	21675.5	16897.1
67.5°	2110.9	2145.1	2613.8	3567.6	5424.6	9991.4	19161.0	24660.4	24085.9	24528.6	19239.1
70°	1585.2	1627.5	1949.8	2441.3	3307.2	5712.7	15409.5	25633.7	26436.1	26322.1	19952.0
71°	1378.5	1422.5	1757.7	2221.6	2778.2	4409.0	12982.9	24614.9	26517.5	26497.9	19683.4
72.5°	1175.1	1202.7	1464.8	1881.4	2342.0	3090.7	9753.8	22075.9	25386.3	26035.7	18724.8
75°	922.8	944.0	1061.2	1435.5	1844.0	1897.7	5234.2	16550.4	20850.4	22087.3	15588.5
77.5°	751.9	766.6	826.8	1066.0	1422.5	1344.3	2745.7	10772.7	13062.6	14307.7	9182.6
80°	597.3	613.6	649.4	722.6	1066.0	958.6	1310.2	5458.8	6310.0	6296.9	3665.2
82.5°	463.8	468.7	511.0	530.6	729.1	680.3	709.6	2311.1	2560.1	2644.7	1323.2
85°	293.0	307.6	452.5	406.9	436.2	398.7	349.9	917.9	1131.1	1114.9	528.9
87.5°	89.5	94.4	153.0	172.5	193.7	174.1	128.6	270.2	330.4	358.1	131.8
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°	3634.3	3634.3	3634.3	3634.3	3634.3	3634.3	3634.3	3634.3	3634.3	3634.3	3634.3
2.5°	3655.4	3637.5	3574.1	3522.0	3473.2	3419.5	3373.9	3360.9	3349.5	3344.6	3343.0
5°	3689.6	3635.9	3510.6	3408.1	3326.7	3251.8	3204.6	3183.5	3162.3	3162.3	3168.8
7.5°	3738.5	3640.8	3447.1	3294.1	3191.6	3121.6	3087.4	3084.2	3089.1	3093.9	3095.6
10°	3792.2	3637.5	3354.4	3163.9	3072.8	3040.2	3041.9	3069.5	3095.6	3115.1	3118.4
12.5°	3844.2	3618.0	3245.3	3041.9	2983.3	2989.8	3035.4	3097.2	3147.7	3175.3	3177.0
15°	3902.8	3587.1	3113.5	2926.3	2906.8	2957.2	3041.9	3136.3	3212.8	3258.3	3263.2
17.5°	3951.7	3535.0	2975.1	2814.0	2838.4	2931.2	3048.4	3170.4	3263.2	3320.2	3329.9
20°	4007.0	3468.3	2831.9	2706.6	2776.6	2901.9	3035.4	3167.2	3263.2	3318.5	3331.6
22.5°	4050.9	3373.9	2695.2	2618.7	2721.2	2866.1	2991.4	3097.2	3175.3	3204.6	3224.1
25°	4068.8	3255.1	2566.6	2547.1	2677.3	2807.5	2892.1	2952.4	2976.8	2973.5	2981.6
27.5°	4059.1	3118.4	2456.0	2490.1	2622.0	2716.4	2758.7	2753.8	2709.8	2669.2	2688.7
30°	4018.4	2955.6	2363.2	2431.5	2550.3	2602.4	2595.9	2532.4	2449.4	2372.9	2377.8
32.5°	3945.1	2779.8	2276.9	2364.8	2449.4	2472.2	2428.3	2345.3	2226.5	2127.2	2112.5
35°	3883.3	2612.2	2200.4	2288.3	2348.5	2337.1	2294.8	2187.4	2080.0	1992.1	1977.5
37.5°	3873.5	2469.0	2127.2	2202.1	2236.2	2220.0	2167.9	2076.7	2037.7	1970.9	1962.8
40°	3925.6	2368.1	2052.3	2110.9	2127.2	2114.2	2057.2	2005.1	2040.9	2024.7	2024.7
42.5°	4067.2	2314.4	1985.6	2019.8	2032.8	2042.6	2001.9	1957.9	2001.9	1927.0	1902.6
45°	4291.8	2316.0	1925.4	1930.3	1969.3	2003.5	1975.8	1910.7	1887.9	1738.2	1708.9
47.5°	4622.2	2371.3	1876.5	1845.6	1915.6	1972.6	1933.5	1839.1	1738.2	1638.9	1621.0
50°	5007.9	2470.6	1832.6	1757.7	1844.0	1933.5	1904.2	1793.5	1689.4	1629.2	1617.8
52.5°	5436.0	2595.9	1778.9	1660.1	1756.1	1915.6	1910.7	1787.0	1643.8	1603.1	1593.4
55°	5964.9	2719.6	1712.2	1546.2	1678.0	1901.0	1892.8	1733.3	1634.0	1604.8	1601.5
57.5°	6580.1	2898.6	1616.1	1430.6	1588.5	1840.7	1822.8	1700.8	1601.5	1580.3	1578.7
60°	7571.3	3177.0	1479.4	1324.8	1497.3	1735.0	1757.7	1645.4	1549.4	1544.5	1542.9
62.5°	8875.0	3567.6	1337.8	1215.8	1391.5	1598.2	1663.3	1570.6	1494.1	1518.5	1521.7
65°	10675.0	3896.3	1191.4	1123.0	1274.4	1466.4	1573.8	1500.6	1432.2	1479.4	1479.4
67.5°	11848.5	3902.8	1057.9	1027.0	1155.6	1355.7	1479.4	1417.6	1352.5	1432.2	1435.5
70°	11604.3	3419.5	947.2	926.1	1040.0	1236.9	1375.3	1326.4	1251.6	1323.2	1297.1
71°	11210.5	3150.9	903.3	887.0	994.4	1180.0	1326.4	1285.8	1210.9	1258.1	1243.4
72.5°	10582.2	2735.9	831.7	834.9	926.1	1108.4	1258.1	1215.8	1140.9	1166.9	1162.1
75°	8944.9	2389.2	711.2	725.9	795.9	986.3	1121.4	1088.8	1012.3	1012.3	1007.4
77.5°	5592.2	1669.9	590.8	598.9	675.4	844.7	963.5	935.8	862.6	838.2	831.7
80°	2086.5	862.6	462.2	472.0	519.2	665.7	797.5	771.5	696.6	668.9	642.9
82.5°	789.4	432.9	340.2	332.0	382.5	507.8	625.0	594.1	535.5	468.7	449.2
85°	297.8	214.8	208.3	201.8	224.6	301.1	387.4	380.8	319.0	271.8	266.9
87.5°	78.1	70.0	81.4	60.2	63.5	57.0	58.6	24.4	11.4	4.9	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

(END OF REPORT)