

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: P454442

Luminaire Tested: **GALN-SA5C-740-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454442
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-740-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35408 lumens
Efficiency: N/A
Efficacy: 131.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

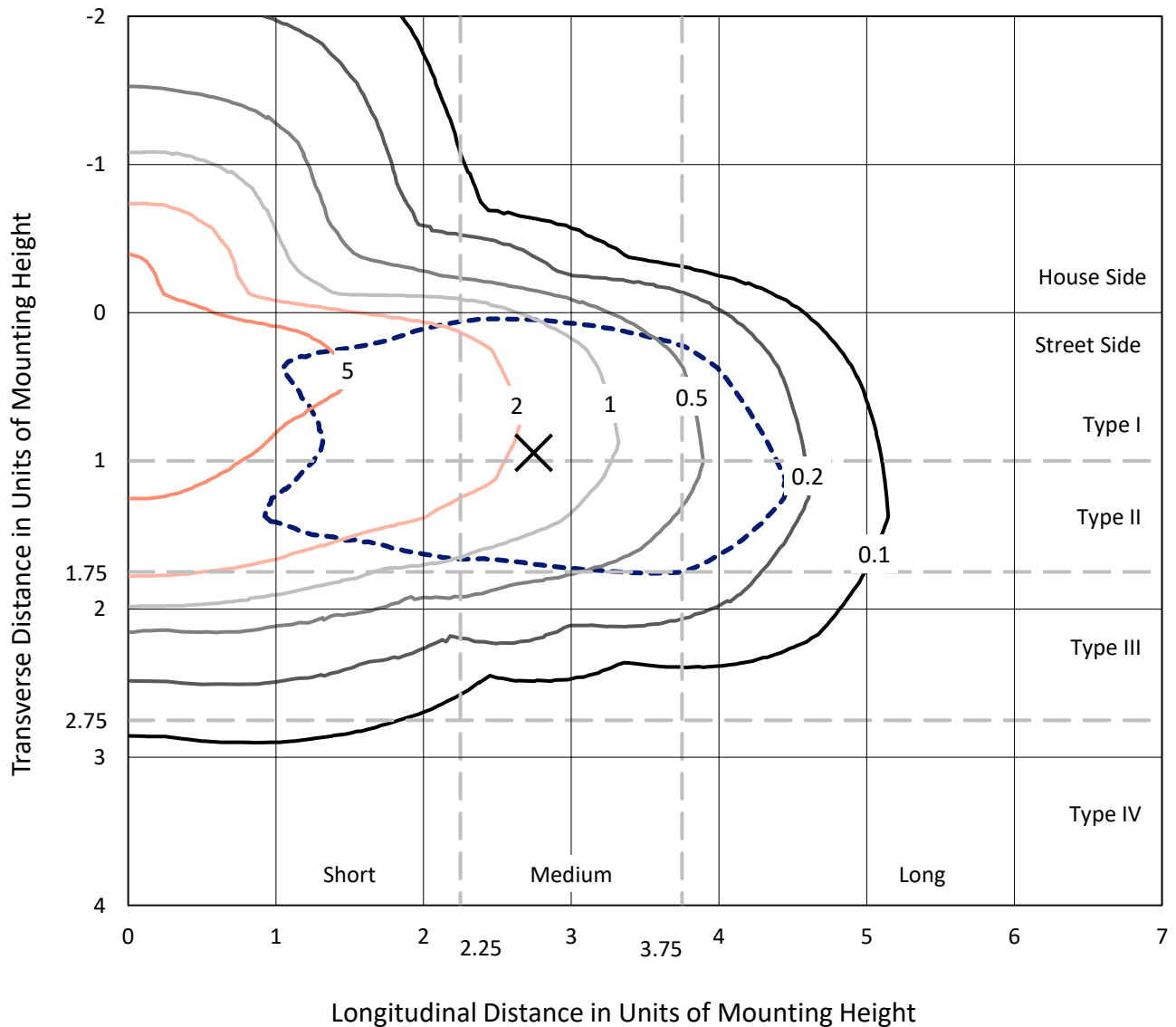
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

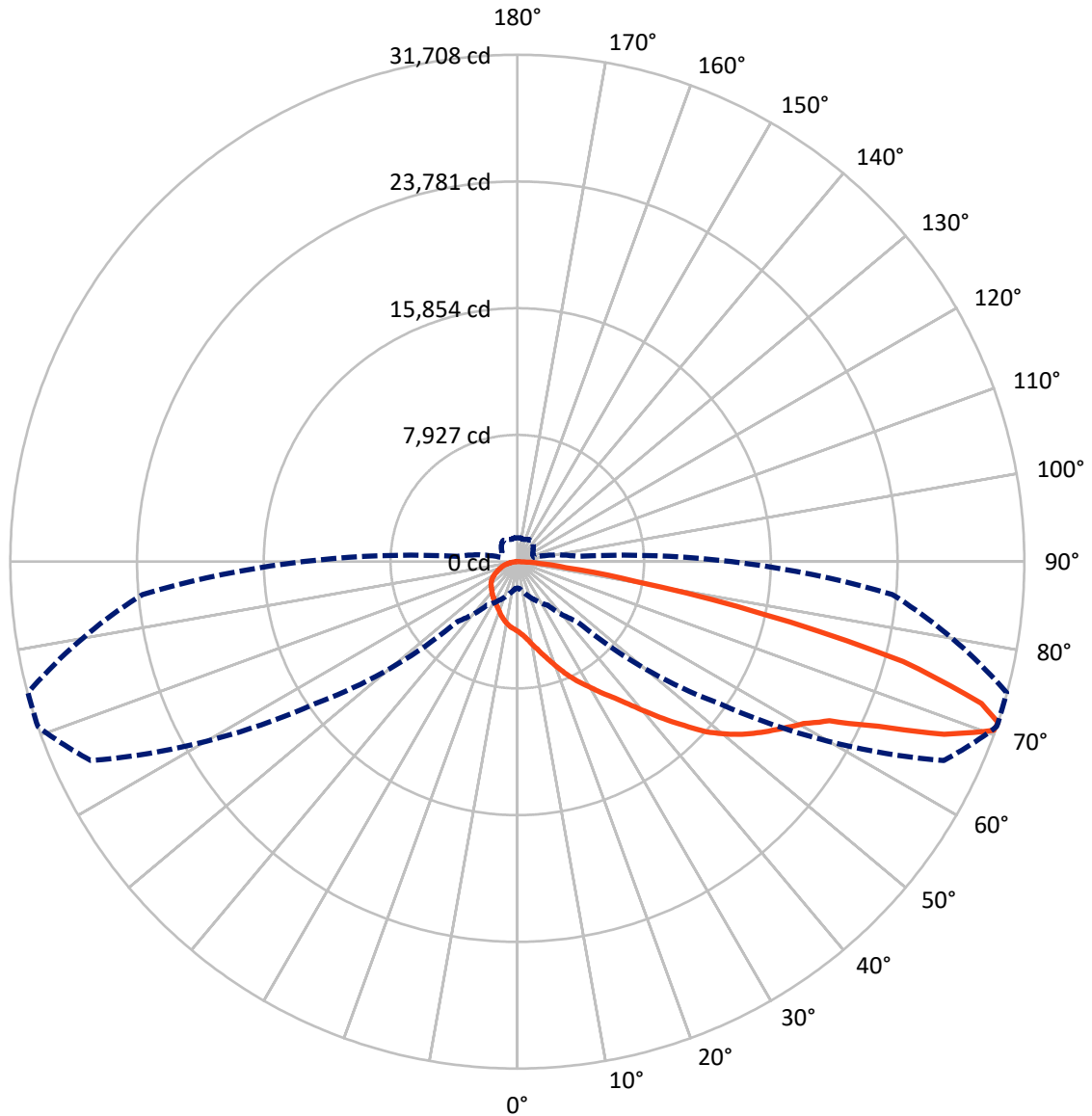
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 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	6368.0	0.0	6368.0
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	29040.0	0.0	29040.0
	% Fixture	82.0	0.0	82.0
Total	Lumens	35408.0	0.0	35408.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	436.3	1.2
10°-20°	1417.6	4.0
20°-30°	2477.4	7.0
30°-40°	3684.8	10.4
40°-50°	5429.1	15.3
50°-60°	7600.8	21.5
60°-70°	8501.2	24.0
70°-80°	5192.9	14.7
80°-90°	668.0	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°	35408.0	100.0
0°-180°	35408.0	100.0

Coefficient of Utilization



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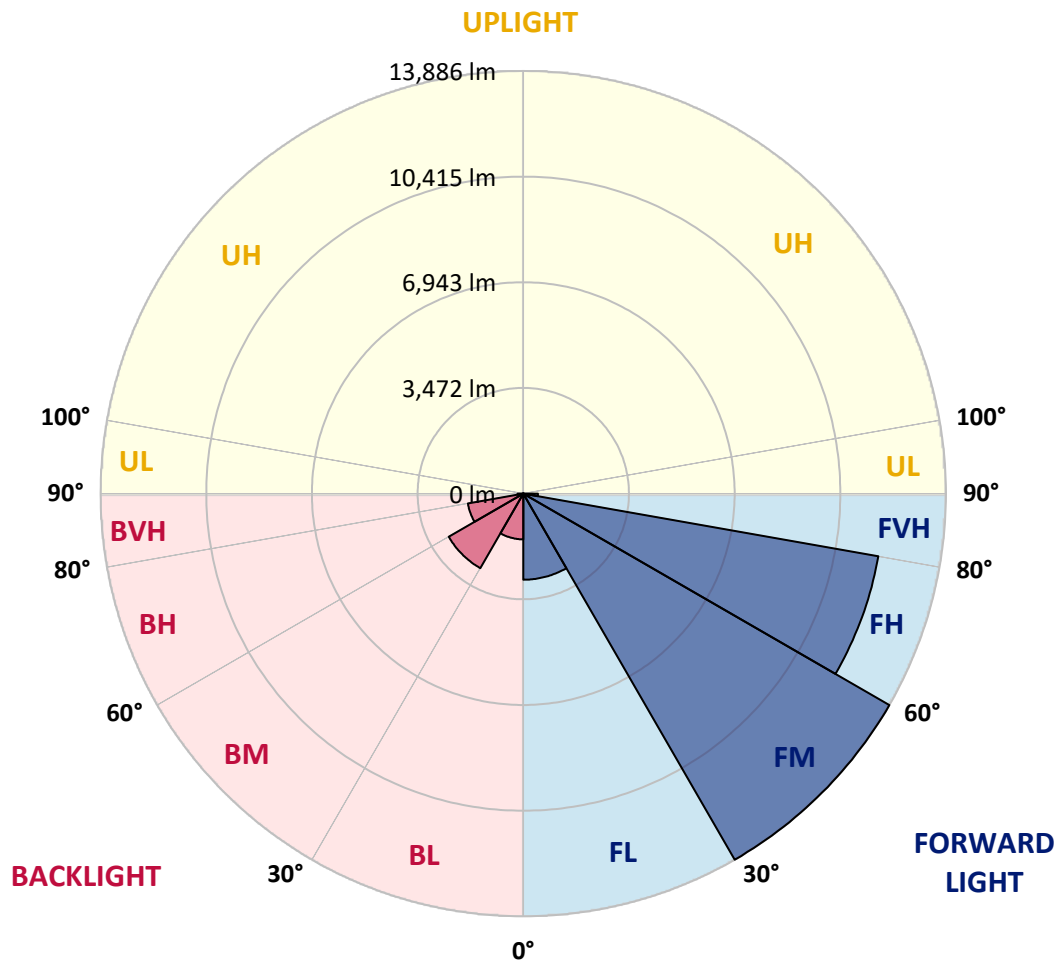
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2829.1	8.0			
FM	(30°-60°)	13886.3	39.2			
FH	(60°-80°)	11843.9	33.4			G4/12000
FVH	(80°-90°)	480.7	1.4			G3/500
BL	(0°-30°)	1502.2	4.2	B3/2500		
BM	(30°-60°)	2828.3	8.0	B3/5000		
BH	(60°-80°)	1850.2	5.2	B3/2500		G3/2500
BVH	(80°-90°)	187.3	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°	4345.6	4345.6	4345.6	4345.6	4345.6	4345.6	4345.6	4345.6	4345.6	4345.6	4345.6
2.5°	4824.4	4801.0	4803.0	4769.9	4727.1	4680.4	4614.2	4555.8	4509.1	4481.9	4402.1
5°	5345.9	5322.6	5293.4	5221.4	5190.2	5075.4	4929.5	4797.1	4695.9	4639.5	4479.9
7.5°	5768.2	5762.4	5754.6	5713.7	5633.9	5474.4	5349.8	5120.2	4970.3	4863.3	4590.8
10°	6029.0	6038.7	6044.6	6052.4	6019.3	5935.6	5764.3	5474.4	5283.7	5147.4	4734.9
12.5°	6161.3	6171.1	6204.2	6276.2	6320.9	6311.2	6171.1	5886.9	5624.2	5445.2	4888.6
15°	6243.1	6258.6	6317.0	6412.4	6562.2	6657.6	6589.5	6326.8	6038.7	5826.6	5071.5
17.5°	6332.6	6350.1	6414.3	6550.6	6747.1	6953.4	7027.4	6801.6	6488.3	6235.3	5275.9
20°	6383.2	6406.5	6498.0	6677.1	6906.7	7206.4	7451.6	7332.9	6990.4	6710.1	5511.3
22.5°	6464.9	6484.4	6562.2	6753.0	7027.4	7403.0	7875.9	7850.6	7548.9	7186.9	5770.2
25°	6686.8	6717.9	6756.8	6871.7	7136.3	7603.4	8228.1	8403.2	8089.9	7685.1	6007.6
27.5°	7105.2	7130.5	7128.6	7144.1	7294.0	7776.6	8533.6	8950.1	8627.0	8189.2	6237.2
30°	7582.0	7591.7	7599.5	7564.5	7597.6	7953.7	8813.9	9491.1	9168.1	8706.8	6437.7
32.5°	8161.9	8181.4	8115.2	8025.7	7998.5	8216.4	9045.5	10032.1	9808.3	9232.3	6636.2
35°	8847.0	8897.6	8763.3	8605.6	8494.7	8594.0	9356.8	10584.8	10464.2	9903.7	6898.9
37.5°	9629.3	9691.6	9567.0	9257.6	9099.9	9127.2	9763.6	11267.9	11293.2	10668.5	7290.1
40°	10269.6	10351.3	10355.2	9917.3	9677.9	9709.1	10279.3	12003.5	12293.5	11614.3	7751.3
42.5°	10691.9	10771.6	10855.3	10598.4	10347.4	10524.5	10880.6	12801.4	13418.3	12762.5	8395.5
45°	11155.0	11227.0	11273.7	11157.0	11016.9	11476.1	11606.5	13649.9	14617.1	14045.0	9099.9
47.5°	11692.1	11771.9	11816.7	11705.8	11653.2	12311.0	12388.9	14442.0	15897.7	15290.5	9878.4
50°	12408.3	12468.6	12445.3	12375.2	12363.6	12951.3	13140.0	15183.4	16954.4	16631.3	10686.0
52.5°	13299.6	13371.6	13396.9	13297.7	13252.9	13408.6	13745.3	15858.7	17915.8	17783.4	11548.1
55°	13838.7	13953.5	14338.8	14494.5	14601.6	14000.2	14397.2	16604.1	18777.9	18997.8	12474.5
57.5°	13147.8	13295.7	14157.9	14936.3	15942.4	15479.3	15321.6	17382.5	19640.0	20175.2	13583.8
60°	11462.5	11495.6	12606.8	14041.1	16065.0	17380.6	17250.2	18620.3	20574.1	21362.3	15045.3
62.5°	7951.8	8021.8	9335.4	11624.0	14551.0	18065.6	20531.3	20757.1	21913.0	23139.1	17187.9
65°	4100.4	4009.0	5205.8	7305.6	10970.1	16438.7	23189.7	24686.2	24816.6	25918.1	20204.4
67.5°	2524.1	2565.0	3125.4	4265.8	6486.3	11947.1	22911.4	29487.3	28800.3	29329.6	23004.8
70°	1895.5	1946.1	2331.4	2919.1	3954.5	6830.8	18425.6	30651.0	31610.4	31474.2	23857.2
71°	1648.3	1700.9	2101.8	2656.4	3322.0	5272.0	15524.0	29432.8	31707.8	31684.4	23536.1
72.5°	1405.1	1438.2	1751.5	2249.7	2800.4	3695.6	11663.0	26396.9	30355.2	31131.7	22389.8
75°	1103.4	1128.7	1268.9	1716.5	2204.9	2269.1	6258.6	19789.9	24931.4	26410.5	18639.7
77.5°	899.1	916.6	988.6	1274.7	1700.9	1607.5	3283.1	12881.2	15619.4	17108.1	10979.9
80°	714.2	733.7	776.5	864.1	1274.7	1146.3	1566.6	6527.2	7545.0	7529.4	4382.6
82.5°	554.6	560.5	611.1	634.4	871.9	813.5	848.5	2763.5	3061.2	3162.4	1582.2
85°	350.3	367.8	541.0	486.5	521.6	476.8	418.4	1097.6	1352.5	1333.1	632.5
87.5°	107.0	112.9	182.9	206.3	231.6	208.2	153.7	323.1	395.1	428.1	157.6
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°	4345.6	4345.6	4345.6	4345.6	4345.6	4345.6	4345.6	4345.6	4345.6	4345.6	4345.6
2.5°	4370.9	4349.5	4273.6	4211.4	4153.0	4088.7	4034.3	4018.7	4005.1	3999.2	3997.3
5°	4411.8	4347.6	4197.7	4075.1	3977.8	3888.3	3831.9	3806.6	3781.3	3781.3	3789.0
7.5°	4470.2	4353.4	4121.8	3938.9	3816.3	3732.6	3691.7	3687.9	3693.7	3699.5	3701.5
10°	4534.4	4349.5	4010.9	3783.2	3674.2	3635.3	3637.3	3670.3	3701.5	3724.8	3728.7
12.5°	4596.7	4326.2	3880.5	3637.3	3567.2	3575.0	3629.5	3703.4	3763.8	3796.8	3798.8
15°	4666.7	4289.2	3722.9	3499.1	3475.7	3536.1	3637.3	3750.1	3841.6	3896.1	3901.9
17.5°	4725.1	4226.9	3557.5	3364.8	3394.0	3504.9	3645.0	3791.0	3901.9	3970.0	3981.7
20°	4791.3	4147.1	3386.2	3236.4	3320.0	3469.9	3629.5	3787.1	3901.9	3968.1	3983.7
22.5°	4843.8	4034.3	3222.7	3131.3	3253.9	3427.1	3576.9	3703.4	3796.8	3831.9	3855.2
25°	4865.2	3892.2	3069.0	3045.6	3201.3	3357.0	3458.2	3530.2	3559.4	3555.5	3565.2
27.5°	4853.6	3728.7	2936.7	2977.5	3135.2	3248.0	3298.6	3292.8	3240.3	3191.6	3215.0
30°	4804.9	3534.1	2825.7	2907.5	3049.5	3111.8	3104.0	3028.1	2928.9	2837.4	2843.2
32.5°	4717.3	3323.9	2722.6	2827.7	2928.9	2956.1	2903.6	2804.3	2662.3	2543.5	2526.0
35°	4643.4	3123.5	2631.1	2736.2	2808.2	2794.6	2744.0	2615.6	2487.1	2382.0	2364.5
37.5°	4631.7	2952.2	2543.5	2633.1	2673.9	2654.5	2592.2	2483.2	2436.5	2356.7	2347.0
40°	4694.0	2831.6	2454.0	2524.1	2543.5	2528.0	2459.9	2397.6	2440.4	2420.9	2420.9
42.5°	4863.3	2767.3	2374.2	2415.1	2430.7	2442.4	2393.7	2341.2	2393.7	2304.2	2275.0
45°	5131.9	2769.3	2302.2	2308.1	2354.8	2395.6	2362.6	2284.7	2257.5	2078.4	2043.4
47.5°	5526.9	2835.5	2243.8	2206.9	2290.6	2358.7	2312.0	2199.1	2078.4	1959.7	1938.3
50°	5988.1	2954.2	2191.3	2101.8	2204.9	2312.0	2276.9	2144.6	2020.0	1948.0	1934.4
52.5°	6500.0	3104.0	2127.1	1985.0	2099.8	2290.6	2284.7	2136.8	1965.6	1916.9	1905.2
55°	7132.4	3251.9	2047.3	1848.8	2006.4	2273.0	2263.3	2072.6	1953.9	1918.9	1915.0
57.5°	7868.1	3466.0	1932.5	1710.6	1899.4	2201.0	2179.6	2033.7	1915.0	1889.7	1887.7
60°	9053.2	3798.8	1769.0	1584.1	1790.4	2074.5	2101.8	1967.5	1852.7	1846.8	1844.9
62.5°	10612.1	4265.8	1599.7	1453.7	1663.9	1911.1	1988.9	1878.0	1786.5	1815.7	1819.6
65°	12764.4	4659.0	1424.5	1342.8	1523.8	1753.4	1881.9	1794.3	1712.6	1769.0	1769.0
67.5°	14167.6	4666.7	1265.0	1228.0	1381.7	1621.1	1769.0	1695.1	1617.2	1712.6	1716.5
70°	13875.7	4088.7	1132.6	1107.3	1243.6	1479.0	1644.5	1586.1	1496.5	1582.2	1551.0
71°	13404.7	3767.6	1080.1	1060.6	1189.1	1410.9	1586.1	1537.4	1447.9	1504.3	1486.8
72.5°	12653.5	3271.4	994.5	998.3	1107.3	1325.3	1504.3	1453.7	1364.2	1395.4	1389.5
75°	10695.7	2856.9	850.4	868.0	951.6	1179.3	1340.9	1301.9	1210.5	1210.5	1204.6
77.5°	6686.8	1996.7	706.4	716.2	807.6	1010.0	1152.1	1119.0	1031.4	1002.2	994.5
80°	2494.9	1031.4	552.7	564.4	620.8	796.0	953.6	922.4	832.9	799.8	768.7
82.5°	943.9	517.7	406.7	397.0	457.3	607.2	747.3	710.3	640.3	560.5	537.1
85°	356.1	256.9	249.1	241.3	268.6	360.0	463.2	455.4	381.4	325.0	319.2
87.5°	93.4	83.7	97.3	72.0	75.9	68.1	70.1	29.2	13.6	5.8	3.9
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)