

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: P529412

Luminaire Tested: **GALN-SA4C-740-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529412
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-740-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24440 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

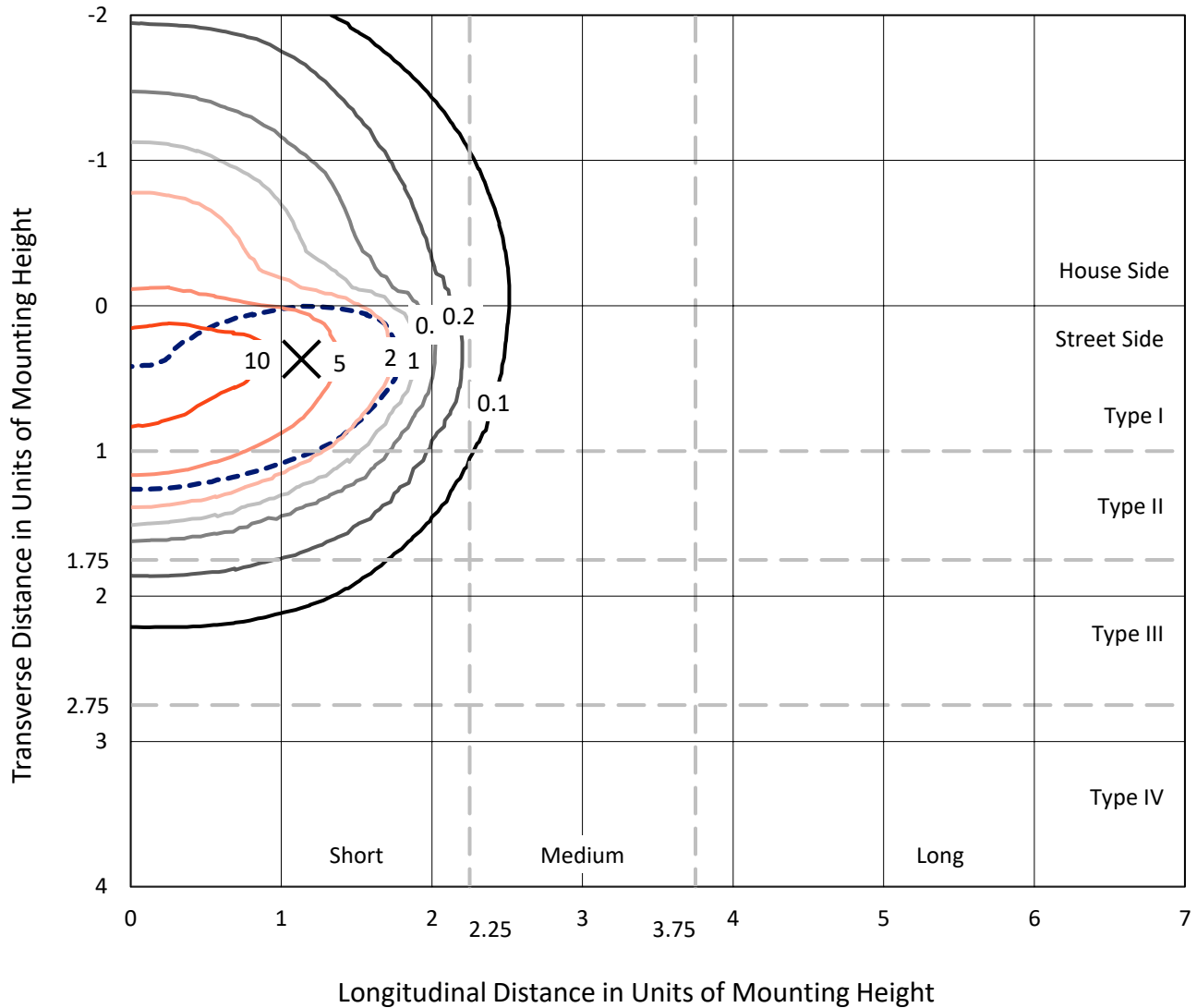
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

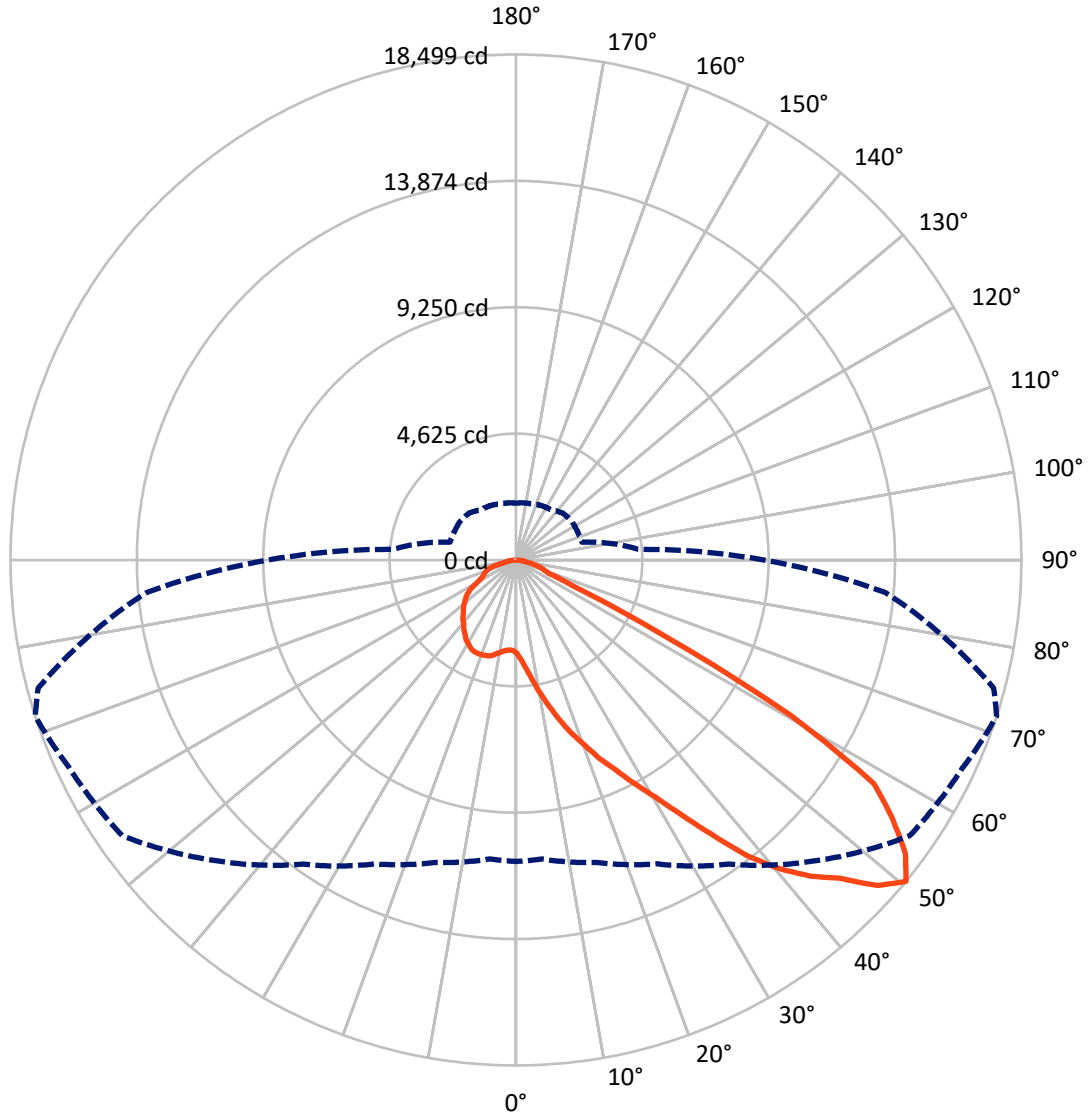
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5599.3	0.0	5599.3
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	18840.6	0.0	18840.6
	% Fixture	77.1	0.0	77.1
Total	Lumens	24440.0	0.0	24440.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	400.2	1.6
10°-20°	1496.1	6.1
20°-30°	2900.7	11.9
30°-40°	4805.5	19.7
40°-50°	6724.0	27.5
50°-60°	5672.5	23.2
60°-70°	1729.0	7.1
70°-80°	606.6	2.5
80°-90°	105.5	0.4
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°	24440.0	100.0
0°-180°	24440.0	100.0

Coefficient of Utilization



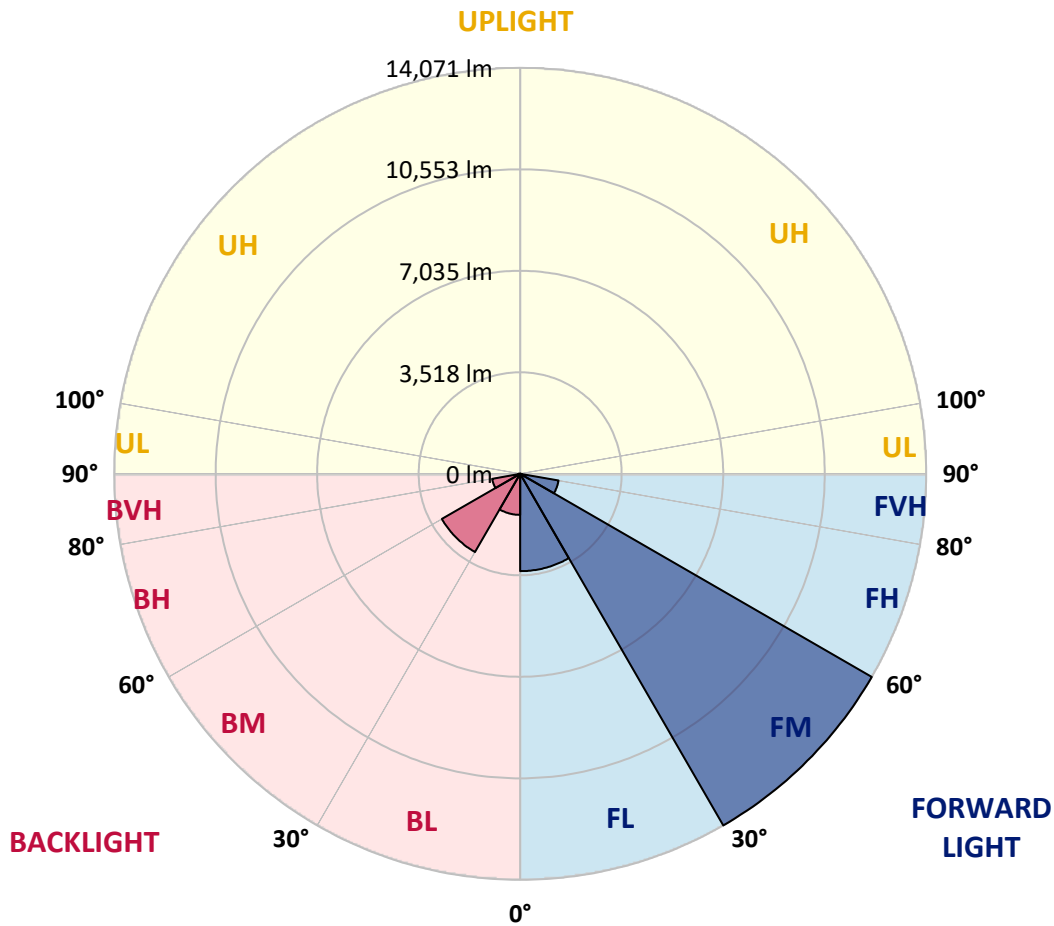
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3373.6	13.8			
FM (30°-60°)	14070.8	57.6			
FH (60°-80°)	1349.1	5.5			G1/1800
FVH (80°-90°)	47.2	0.2			G1/100
BL (0°-30°)	1423.4	5.8	B3/2500		
BM (30°-60°)	3131.2	12.8	B3/5000		
BH (60°-80°)	986.5	4.0	B2/1000		G2/1000
BVH (80°-90°)	58.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	3402.3	3402.3	3402.3	3402.3	3402.3	3402.3	3402.3	3402.3	3402.3	3402.3	3402.3
2.5°	4376.1	4348.8	4267.2	4240.0	4143.2	3967.8	3907.3	3728.9	3653.3	3583.7	3502.1
5°	5534.3	5407.3	5398.2	5244.0	5020.2	4890.2	4503.1	4243.0	4004.1	3883.1	3659.3
7.5°	6272.2	6275.3	6275.3	6148.3	5969.8	5640.2	5292.4	4823.6	4463.8	4285.3	3904.3
10°	6973.9	6913.4	6880.1	6868.0	6747.1	6426.5	6054.5	5473.9	4980.9	4772.2	4088.8
12.5°	7469.8	7418.4	7494.0	7454.7	7367.0	7158.3	6807.5	6145.2	5528.3	5247.0	4385.1
15°	7705.7	7742.0	7802.5	7911.4	7872.1	7793.4	7406.3	6834.8	6118.0	5800.5	4648.2
17.5°	8068.6	7968.8	8041.4	8177.5	8286.4	8250.1	8029.3	7333.8	6701.7	6311.6	5002.1
20°	8322.7	8265.2	8301.5	8458.8	8540.4	8746.1	8631.1	7987.0	7261.2	6849.9	5419.4
22.5°	9048.5	8963.8	8845.9	8870.1	8900.3	9045.5	9072.7	8703.7	7911.4	7475.9	5815.6
25°	9943.7	9865.0	9725.9	9583.8	9496.1	9468.9	9562.6	9266.2	8534.4	8083.8	6242.0
27.5°	10929.6	10796.5	10708.8	10415.4	10179.6	10143.3	10097.9	9937.6	9272.3	8785.4	6722.9
30°	11888.2	11782.4	11664.4	11195.7	10950.7	10911.4	10687.6	10733.0	10073.7	9532.4	7267.2
32.5°	12614.1	12623.1	12354.0	12000.1	11770.3	11561.6	11480.0	11610.0	11101.9	10666.5	7875.1
35°	13200.8	13228.0	12970.9	12650.3	12402.4	12547.5	12511.2	12571.7	12329.8	11797.5	8582.8
37.5°	13772.3	13636.2	13361.0	13206.8	13076.8	13315.7	13624.1	13675.6	13720.9	13094.9	9405.3
40°	13866.1	13878.2	13717.9	13826.8	13663.5	14023.3	14740.1	14673.6	14858.0	14310.6	10297.5
42.5°	13733.0	13760.2	13823.7	13978.0	14371.1	14803.6	15868.1	15595.9	15819.7	15332.8	11165.4
45°	13515.3	13403.4	13482.0	14068.7	14749.2	15710.9	16899.4	16687.7	16615.1	16206.8	12199.7
47.5°	12474.9	12589.9	12834.8	13557.6	14579.8	15868.1	17631.2	17582.9	17800.6	17513.3	13140.3
50°	11032.4	10987.0	11458.8	12272.3	13590.9	15559.7	17591.9	18030.4	18499.2	18100.0	13560.6
52.5°	8262.2	8504.1	8909.4	9919.5	11800.5	13878.2	16733.1	17464.9	17846.0	17761.3	13221.9
55°	5222.8	5295.4	5540.4	6741.0	8434.6	11138.2	14343.9	16040.5	16721.0	17038.5	12910.4
57.5°	2537.3	2401.2	2700.6	3665.4	4872.0	7491.0	11062.6	13971.9	15450.8	16025.4	12233.0
60°	1324.6	1376.0	1494.0	1838.7	2519.2	3889.2	6895.2	9311.6	11570.7	12453.8	9272.3
62.5°	1097.8	1115.9	1194.6	1367.0	1675.4	2237.9	3520.2	4539.4	5900.3	6695.6	5274.3
65°	931.5	940.5	1025.2	1140.1	1336.7	1575.6	1811.5	1896.2	2295.4	2355.9	1875.0
67.5°	777.2	786.3	877.0	985.9	1112.9	1176.4	1236.9	1230.9	1276.2	1258.1	1255.1
70°	598.8	607.9	701.6	816.5	880.1	843.8	1031.3	1073.6	1091.7	1106.9	1131.1
72.5°	432.5	450.6	523.2	604.8	571.6	656.3	849.8	913.3	937.5	946.6	976.8
75°	314.5	320.6	338.7	314.5	362.9	456.7	598.8	677.4	707.7	716.7	762.1
77.5°	139.1	142.1	145.2	181.5	232.9	284.3	356.9	420.4	462.7	474.8	486.9
80°	72.6	75.6	93.8	124.0	166.3	208.7	260.1	296.4	323.6	326.6	338.7
82.5°	45.4	48.4	66.5	87.7	117.9	154.2	190.5	220.8	241.9	245.0	248.0
85°	21.2	27.2	39.3	54.4	78.6	99.8	102.8	87.7	93.8	96.8	90.7
87.5°	6.0	9.1	12.1	9.1	12.1	12.1	15.1	18.1	18.1	18.1	21.2
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°	3402.3	3402.3	3402.3	3402.3	3402.3	3402.3	3402.3	3402.3	3402.3	3402.3	3402.3
2.5°	3456.7	3429.5	3323.6	3284.3	3181.5	3199.6	3145.2	3142.2	3130.1	3127.1	3124.0
5°	3541.4	3456.7	3329.7	3232.9	3175.4	3169.4	3130.1	3130.1	3142.2	3151.2	3130.1
7.5°	3680.5	3583.7	3369.0	3278.3	3226.9	3217.8	3190.6	3169.4	3196.6	3187.5	3163.3
10°	3840.8	3671.4	3444.6	3366.0	3281.3	3260.1	3260.1	3269.2	3223.8	3238.9	3214.8
12.5°	4019.2	3792.4	3541.4	3450.6	3350.8	3338.7	3332.7	3266.2	3290.4	3278.3	3217.8
15°	4246.0	3931.5	3665.4	3511.1	3426.5	3372.0	3293.4	3281.3	3266.2	3235.9	3208.7
17.5°	4491.0	4082.7	3722.8	3529.3	3402.3	3362.9	3302.5	3238.9	3193.6	3199.6	3178.5
20°	4699.7	4221.8	3744.0	3547.4	3384.1	3308.5	3214.8	3175.4	3127.1	3124.0	3121.0
22.5°	4947.6	4409.3	3774.2	3499.0	3329.7	3251.0	3187.5	3118.0	3084.7	3042.4	3063.5
25°	5244.0	4481.9	3780.3	3471.8	3290.4	3151.2	3118.0	3042.4	3030.3	2969.8	2981.9
27.5°	5458.7	4521.2	3731.9	3387.1	3199.6	3093.8	3033.3	2978.9	2957.7	2912.3	2900.2
30°	5746.0	4581.7	3629.1	3281.3	3108.9	2991.0	2954.7	2942.6	2882.1	2833.7	2827.7
32.5°	6072.6	4621.0	3562.5	3172.4	3015.2	2924.4	2942.6	2885.1	2809.5	2767.2	2755.1
35°	6332.7	4636.1	3396.2	3048.4	2951.6	2894.2	2873.0	2860.9	2752.0	2712.7	2682.5
37.5°	6728.9	4602.9	3257.1	2960.7	2882.1	2860.9	2842.8	2761.1	2637.1	2579.7	2537.3
40°	7191.6	4593.8	3078.7	2836.7	2815.6	2839.8	2785.3	2658.3	2485.9	2422.4	2392.2
42.5°	7636.2	4657.3	2966.8	2770.2	2743.0	2752.0	2676.4	2485.9	2401.2	2364.9	2316.6
45°	8380.1	4790.4	2782.3	2667.4	2655.3	2649.2	2558.5	2358.9	2310.5	2265.1	2256.1
47.5°	9051.5	4702.7	2664.3	2561.5	2573.6	2540.4	2346.8	2283.3	2228.9	2183.5	2168.4
50°	9090.8	4494.0	2498.0	2479.9	2482.9	2425.4	2241.0	2198.6	2129.1	2098.8	2077.6
52.5°	8885.2	4152.3	2343.8	2349.8	2358.9	2265.1	2110.9	2080.7	2023.2	1980.9	1968.8
55°	8307.6	3620.0	2192.6	2216.8	2241.0	2062.5	2014.1	1938.5	1893.2	1832.7	1835.7
57.5°	7318.6	2915.4	1980.9	2020.2	2071.6	1875.0	1838.7	1745.0	1678.4	1630.1	1624.0
60°	4905.3	2074.6	1663.3	1678.4	1793.4	1714.7	1711.7	1618.0	1527.2	1484.9	1460.7
62.5°	2894.2	1584.7	1436.5	1421.4	1418.4	1463.7	1539.3	1506.1	1388.1	1306.5	1330.7
65°	1515.1	1370.0	1336.7	1285.3	1255.1	1243.0	1300.4	1315.5	1236.9	1149.2	1143.2
67.5°	1273.2	1273.2	1246.0	1227.8	1185.5	1134.1	1097.8	1049.4	1037.3	1013.1	982.9
70°	1158.3	1188.5	1179.4	1137.1	1100.8	1043.4	949.6	871.0	795.4	768.2	786.3
72.5°	1010.1	1040.3	1040.3	1019.2	970.8	883.1	792.3	701.6	638.1	589.7	583.7
75°	777.2	792.3	828.6	804.4	740.9	686.5	592.7	499.0	438.5	393.1	384.1
77.5°	496.0	520.2	520.2	517.1	471.8	420.4	359.9	293.4	248.0	214.7	205.6
80°	329.6	344.8	356.9	344.8	314.5	275.2	229.8	184.5	151.2	124.0	117.9
82.5°	241.9	260.1	269.2	257.1	226.8	196.6	163.3	130.0	96.8	75.6	69.6
85°	93.8	96.8	108.9	130.0	127.0	124.0	99.8	72.6	54.4	39.3	36.3
87.5°	24.2	21.2	24.2	24.2	21.2	18.1	18.1	18.1	18.1	9.1	12.1
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)