

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: P458299

Luminaire Tested: **GALN-SA9D-722-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458299
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-SA9D-722-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2200K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51848 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

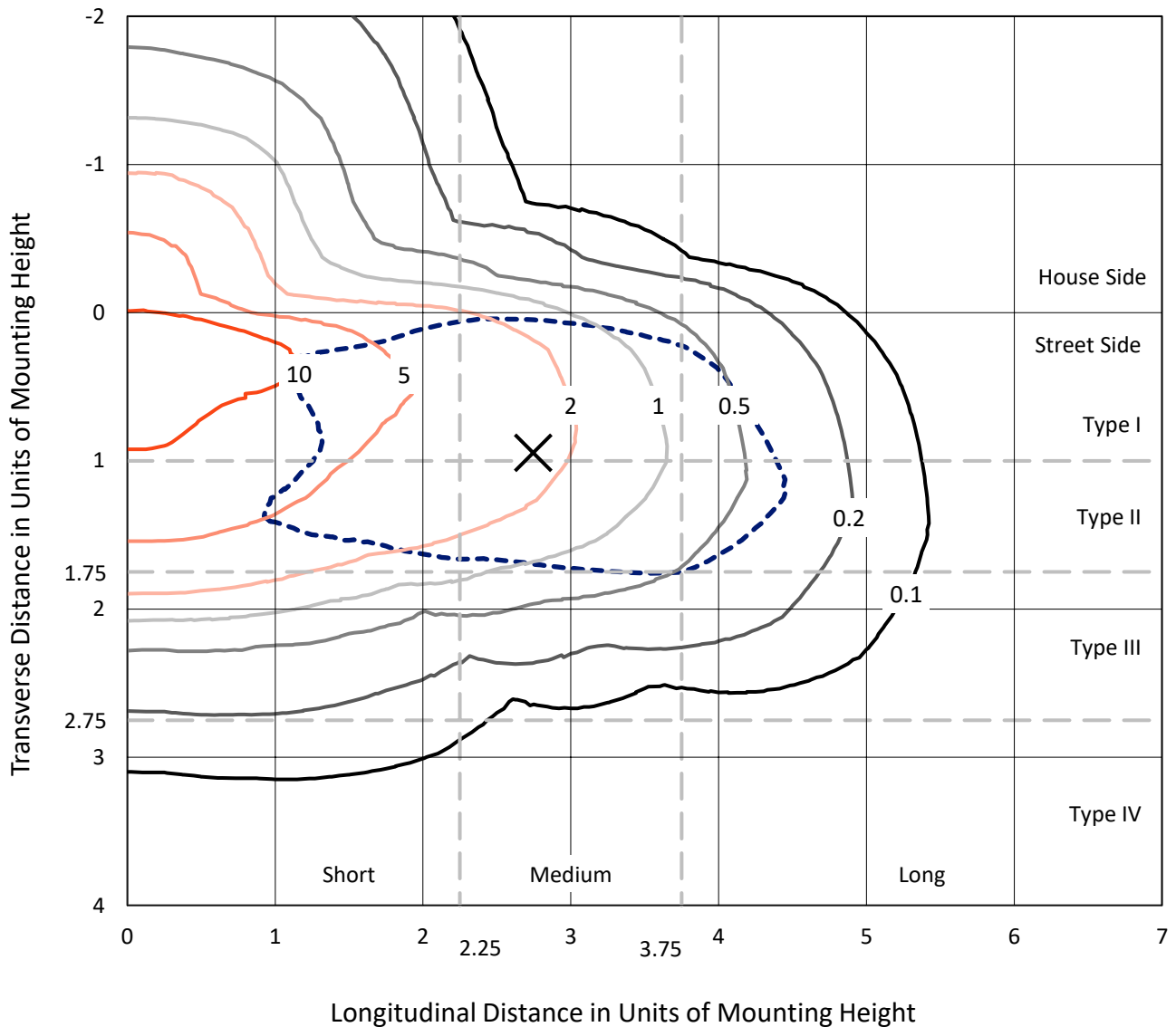
Input Watts (W): 552
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

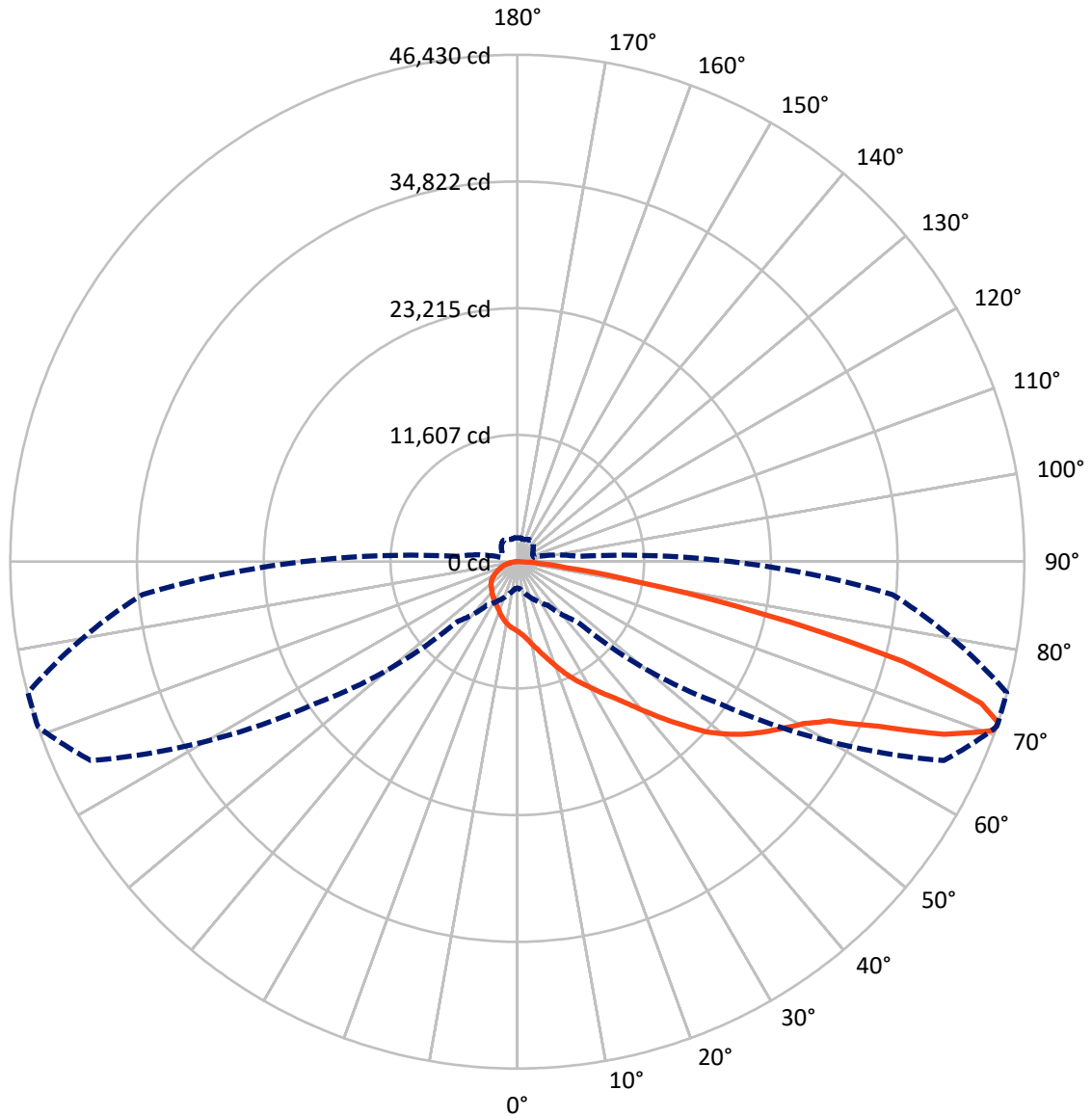
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 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	9324.7	0.0	9324.7
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	42523.3	0.0	42523.3
	% Fixture	82.0	0.0	82.0
Total	Lumens	51848.0	0.0	51848.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	638.9	1.2
10°-20°	2075.8	4.0
20°-30°	3627.6	7.0
30°-40°	5395.6	10.4
40°-50°	7949.8	15.3
50°-60°	11129.8	21.5
60°-70°	12448.3	24.0
70°-80°	7603.9	14.7
80°-90°	978.2	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°	51848.0	100.0
0°-180°	51848.0	100.0

Coefficient of Utilization



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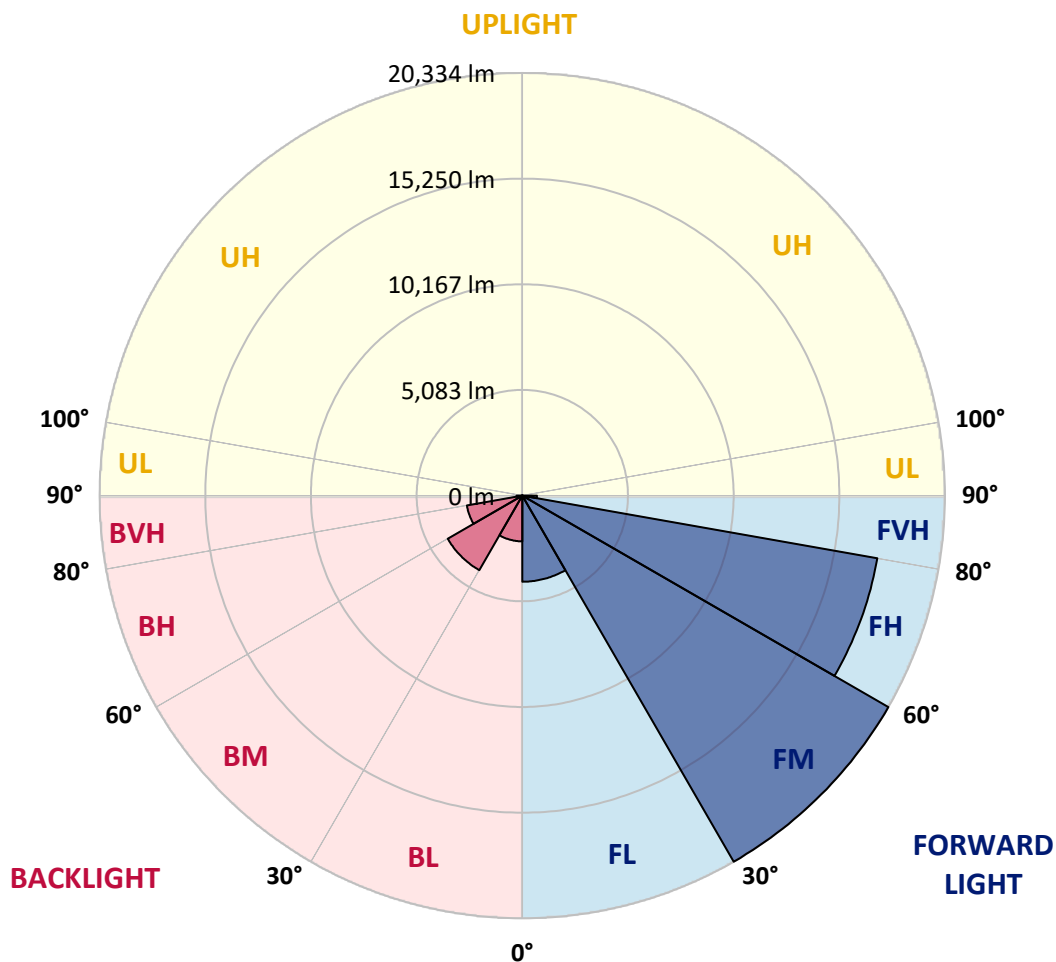
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4142.7	8.0			
FM	(30°-60°)	20333.8	39.2			
FH	(60°-80°)	17343.0	33.4			G5
FVH	(80°-90°)	703.8	1.4			G4/750
BL	(0°-30°)	2199.7	4.2	B3/2500		
BM	(30°-60°)	4141.5	8.0	B3/5000		
BH	(60°-80°)	2709.2	5.2	B4/5000		G4/5000
BVH	(80°-90°)	274.3	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	6363.3	6363.3	6363.3	6363.3	6363.3	6363.3	6363.3	6363.3	6363.3	6363.3	6363.3
2.5°	7064.3	7030.1	7033.0	6984.5	6921.9	6853.5	6756.6	6671.1	6602.7	6562.8	6446.0
5°	7828.1	7793.9	7751.1	7645.7	7600.1	7431.9	7218.2	7024.4	6876.3	6793.6	6559.9
7.5°	8446.4	8437.9	8426.5	8366.6	8249.8	8016.1	7833.8	7497.5	7278.1	7121.3	6722.4
10°	8828.3	8842.5	8851.1	8862.5	8814.0	8691.5	8440.7	8016.1	7736.9	7537.4	6933.3
12.5°	9022.1	9036.3	9084.8	9190.2	9255.7	9241.5	9036.3	8620.3	8235.6	7973.4	7158.4
15°	9141.8	9164.5	9250.0	9389.7	9609.1	9748.7	9649.0	9264.3	8842.5	8531.9	7426.2
17.5°	9272.8	9298.5	9392.5	9592.0	9879.8	10181.9	10290.2	9959.6	9500.8	9130.4	7725.5
20°	9346.9	9381.1	9515.1	9777.2	10113.5	10552.3	10911.4	10737.6	10236.0	9825.7	8070.3
22.5°	9466.6	9495.1	9609.1	9888.4	10290.2	10840.2	11532.6	11495.6	11053.9	10523.8	8449.3
25°	9791.5	9837.1	9894.1	10062.2	10449.8	11133.7	12048.4	12304.9	11846.1	11253.4	8796.9
27.5°	10404.2	10441.2	10438.4	10461.1	10680.6	11387.3	12495.8	13105.6	12632.6	11991.4	9133.2
30°	11102.3	11116.6	11128.0	11076.7	11125.1	11646.6	12906.2	13897.9	13424.8	12749.4	9426.7
32.5°	11951.5	11980.0	11883.1	11752.1	11712.2	12031.3	13245.3	14690.1	14362.4	13518.8	9717.4
35°	12954.6	13028.7	12832.1	12601.3	12438.8	12584.2	13701.2	15499.4	15322.7	14502.0	10102.1
37.5°	14100.2	14191.4	14009.0	13555.9	13325.1	13365.0	14296.8	16499.6	16536.7	15621.9	10674.9
40°	15037.7	15157.4	15163.1	14521.9	14171.4	14217.0	15052.0	17576.8	18001.4	17006.8	11350.2
42.5°	15656.1	15772.9	15895.5	15519.3	15151.7	15411.0	15932.5	18745.1	19648.5	18688.2	12293.5
45°	16334.3	16439.8	16508.2	16337.2	16132.0	16804.5	16995.4	19987.6	21403.9	20566.1	13325.1
47.5°	17120.8	17237.7	17303.2	17140.8	17063.8	18027.0	18141.0	21147.4	23279.0	22389.9	14464.9
50°	18169.5	18257.9	18223.7	18121.1	18104.0	18964.6	19241.0	22233.1	24826.3	24353.3	15647.6
52.5°	19474.7	19580.1	19617.1	19471.8	19406.3	19634.2	20127.2	23222.0	26234.1	26040.3	16910.0
55°	20264.0	20432.2	20996.4	21224.4	21381.1	20500.5	21081.9	24313.4	27496.5	27818.5	18266.4
57.5°	19252.4	19469.0	20731.4	21871.2	23344.5	22666.3	22435.5	25453.3	28758.9	29542.6	19890.7
60°	16784.6	16833.0	18460.2	20560.4	23524.0	25450.4	25259.5	27265.7	30126.7	31280.9	22030.8
62.5°	11643.8	11746.4	13669.9	17021.1	21307.0	26453.5	30064.0	30394.6	32087.3	33882.6	25168.3
65°	6004.3	5870.3	7622.9	10697.7	16063.6	24071.2	33956.7	36148.1	36339.0	37951.9	29585.3
67.5°	3696.0	3755.9	4576.6	6246.5	9498.0	17494.1	33549.2	43178.2	42172.3	42947.4	33686.0
70°	2775.6	2849.7	3413.9	4274.5	5790.5	10002.4	26980.7	44882.3	46287.2	46087.8	34934.1
71°	2413.7	2490.6	3077.6	3889.8	4864.4	7719.8	22731.8	43098.5	46429.7	46395.5	34463.9
72.5°	2057.5	2105.9	2564.7	3294.2	4100.7	5411.5	17078.1	38653.0	44449.2	45586.2	32785.5
75°	1615.8	1652.8	1858.0	2513.4	3228.7	3322.7	9164.5	28978.3	36507.2	38672.9	27294.2
77.5°	1316.5	1342.2	1447.6	1866.5	2490.6	2353.8	4807.4	18862.0	22871.5	25051.5	16077.9
80°	1045.8	1074.3	1137.0	1265.3	1866.5	1678.5	2294.0	9557.8	11048.2	11025.4	6417.5
82.5°	812.2	820.7	894.8	929.0	1276.7	1191.2	1242.5	4046.5	4482.5	4630.7	2316.8
85°	512.9	538.6	792.2	712.4	763.7	698.2	612.7	1607.2	1980.5	1952.0	926.1
87.5°	156.7	165.3	267.9	302.1	339.1	304.9	225.1	473.0	578.5	626.9	230.8
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°	6363.3	6363.3	6363.3	6363.3	6363.3	6363.3	6363.3	6363.3	6363.3	6363.3	6363.3
2.5°	6400.4	6369.0	6257.9	6166.7	6081.2	5987.2	5907.4	5884.6	5864.6	5856.1	5853.2
5°	6460.2	6366.2	6146.7	5967.2	5824.7	5693.6	5611.0	5574.0	5536.9	5536.9	5548.3
7.5°	6545.7	6374.7	6035.6	5767.7	5588.2	5465.7	5405.8	5400.1	5408.7	5417.2	5420.1
10°	6639.7	6369.0	5873.2	5539.8	5380.2	5323.2	5326.0	5374.5	5420.1	5454.3	5460.0
12.5°	6730.9	6334.8	5682.2	5326.0	5223.5	5234.8	5314.6	5422.9	5511.3	5559.7	5562.6
15°	6833.5	6280.7	5451.4	5123.7	5089.5	5177.9	5326.0	5491.3	5625.3	5705.0	5713.6
17.5°	6919.0	6189.5	5209.2	4927.1	4969.8	5132.3	5337.4	5551.2	5713.6	5813.3	5830.4
20°	7015.9	6072.7	4958.4	4739.0	4861.5	5081.0	5314.6	5545.5	5713.6	5810.5	5833.3
22.5°	7092.8	5907.4	4719.1	4585.1	4764.7	5018.3	5237.7	5422.9	5559.7	5611.0	5645.2
25°	7124.2	5699.3	4493.9	4459.7	4687.7	4915.7	5063.9	5169.3	5212.1	5206.4	5220.6
27.5°	7107.1	5460.0	4300.2	4360.0	4590.8	4756.1	4830.2	4821.6	4744.7	4673.5	4707.7
30°	7035.8	5175.0	4137.7	4257.4	4465.4	4556.6	4545.2	4434.1	4288.8	4154.8	4163.4
32.5°	6907.6	4867.2	3986.7	4140.6	4288.8	4328.7	4251.7	4106.4	3898.4	3724.5	3698.9
35°	6799.3	4573.7	3852.8	4006.6	4112.1	4092.1	4018.0	3830.0	3641.9	3488.0	3462.4
37.5°	6782.2	4323.0	3724.5	3855.6	3915.5	3887.0	3795.8	3636.2	3567.8	3451.0	3436.7
40°	6873.4	4146.3	3593.4	3696.0	3724.5	3701.7	3602.0	3510.8	3573.5	3545.0	3545.0
42.5°	7121.3	4052.2	3476.6	3536.4	3559.2	3576.3	3505.1	3428.2	3505.1	3374.0	3331.3
45°	7514.6	4055.1	3371.2	3379.7	3448.1	3507.9	3459.5	3345.5	3305.6	3043.5	2992.2
47.5°	8093.1	4152.0	3285.7	3231.5	3354.1	3453.8	3385.4	3220.1	3043.5	2869.6	2838.3
50°	8768.4	4325.8	3208.7	3077.6	3228.7	3385.4	3334.1	3140.3	2958.0	2852.5	2832.6
52.5°	9517.9	4545.2	3114.7	2906.7	3074.8	3354.1	3345.5	3128.9	2878.2	2806.9	2789.8
55°	10444.1	4761.8	2997.9	2707.2	2938.0	3328.4	3314.2	3034.9	2861.1	2809.8	2804.1
57.5°	11521.2	5075.3	2829.7	2504.9	2781.3	3223.0	3191.6	2977.9	2804.1	2767.0	2764.2
60°	13256.7	5562.6	2590.4	2319.6	2621.7	3037.8	3077.6	2881.0	2712.9	2704.3	2701.5
62.5°	15539.3	6246.5	2342.4	2128.7	2436.5	2798.4	2912.4	2749.9	2616.0	2658.7	2664.4
65°	18691.0	6822.1	2086.0	1966.3	2231.3	2567.6	2755.6	2627.4	2507.7	2590.4	2590.4
67.5°	20745.6	6833.5	1852.3	1798.1	2023.3	2373.8	2590.4	2482.1	2368.1	2507.7	2513.4
70°	20318.2	5987.2	1658.5	1621.5	1820.9	2165.8	2408.0	2322.5	2191.4	2316.8	2271.2
71°	19628.5	5517.0	1581.6	1553.1	1741.2	2066.0	2322.5	2251.2	2120.2	2202.8	2177.1
72.5°	18528.6	4790.3	1456.2	1461.9	1621.5	1940.6	2202.8	2128.7	1997.6	2043.2	2034.7
75°	15661.8	4183.3	1245.3	1271.0	1393.5	1726.9	1963.4	1906.4	1772.5	1772.5	1763.9
77.5°	9791.5	2923.8	1034.4	1048.7	1182.6	1479.0	1687.0	1638.6	1510.3	1467.6	1456.2
80°	3653.3	1510.3	809.3	826.4	909.0	1165.5	1396.3	1350.7	1219.7	1171.2	1125.6
82.5°	1382.1	758.0	595.6	581.3	669.7	889.1	1094.3	1040.1	937.5	820.7	786.5
85°	521.5	376.2	364.8	353.4	393.3	527.2	678.2	666.8	558.5	475.9	467.3
87.5°	136.8	122.5	142.5	105.4	111.1	99.7	102.6	42.7	19.9	8.5	5.7
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)