

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: P529805

Luminaire Tested: **GALN-SA5A-727-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529805
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-727-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11648 lumens
Efficiency: N/A
Efficacy: 75.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

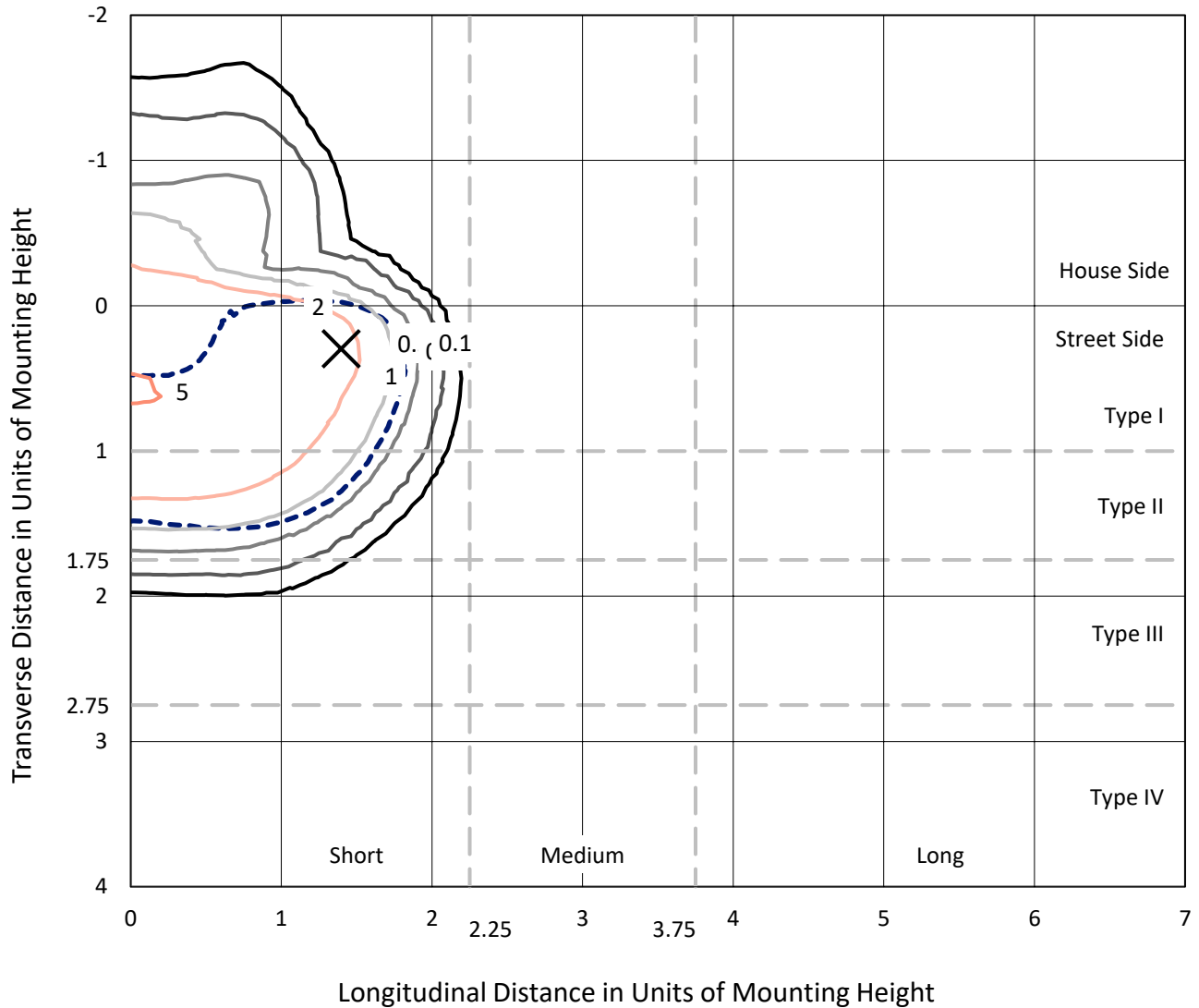
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

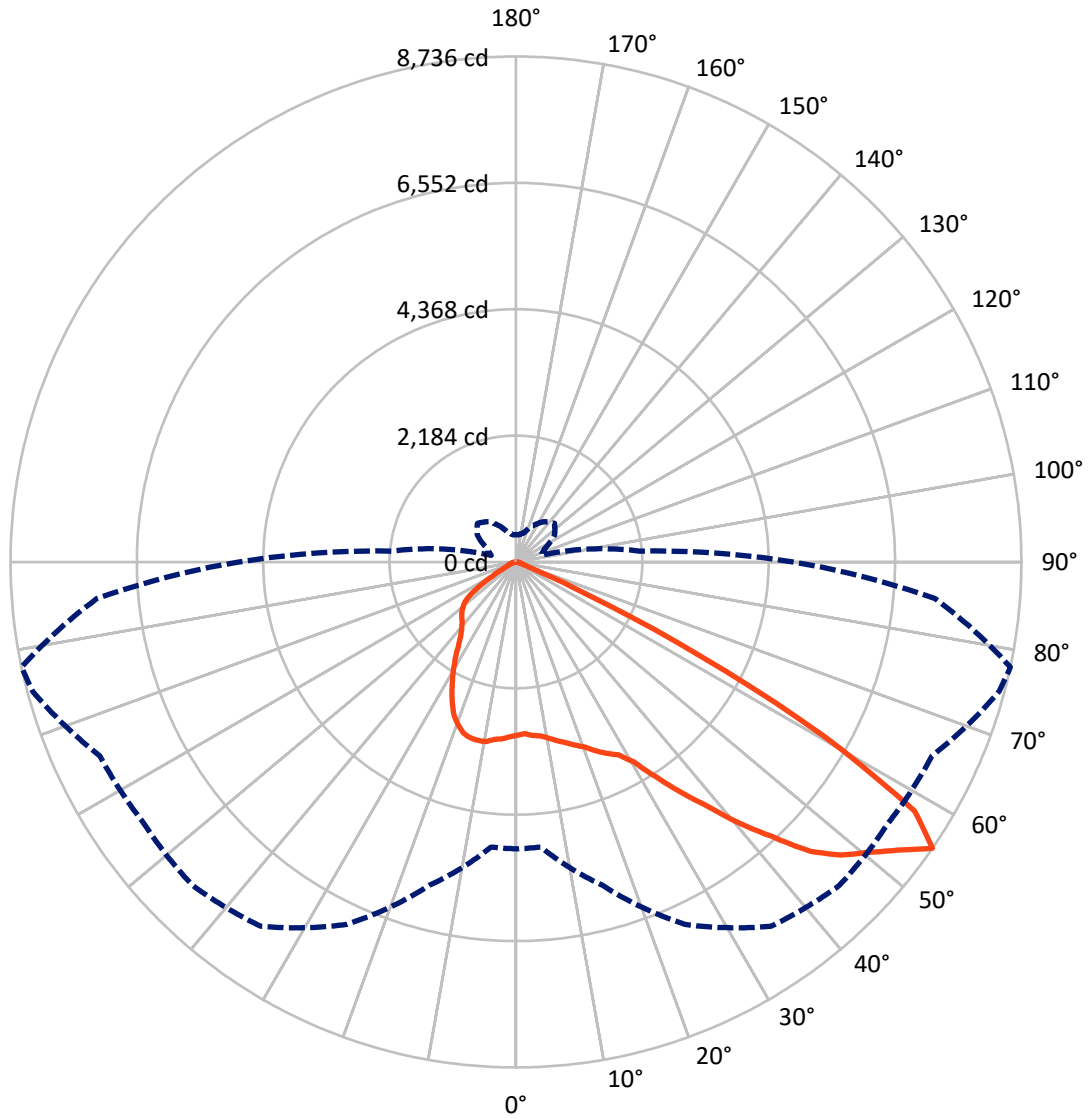
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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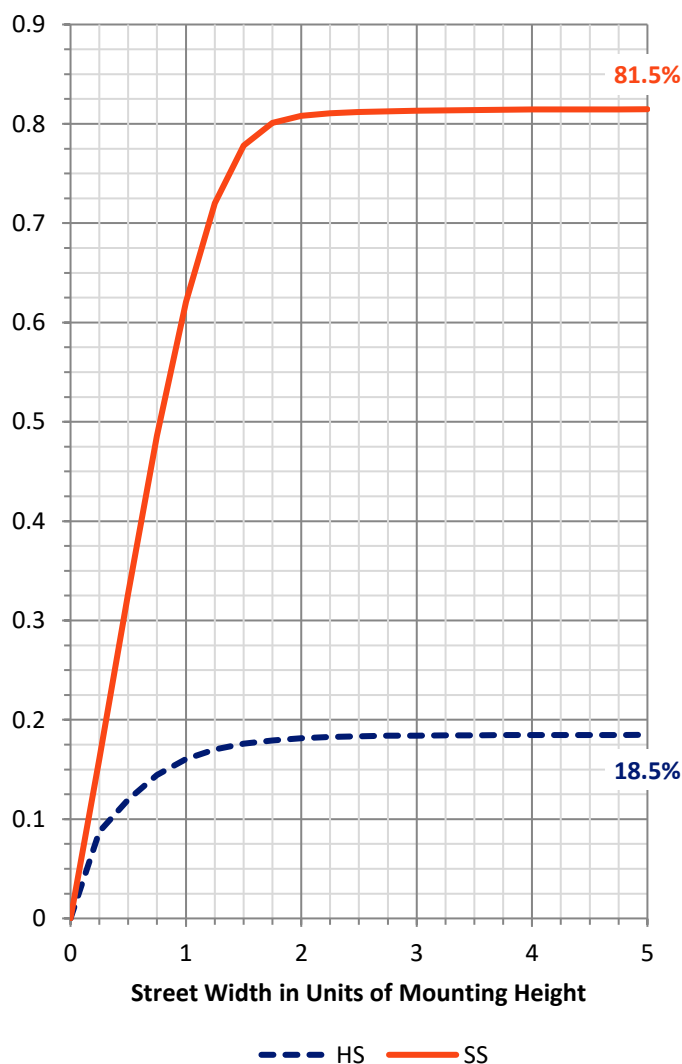
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2163.5	0.0	2163.5
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	9484.5	0.0	9484.5
	% Fixture	81.4	0.0	81.4
Total	Lumens	11648.0	0.0	11648.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.0	2.3
10°-20°	706.7	6.1
20°-30°	1238.7	10.6
30°-40°	2042.5	17.5
40°-50°	2972.1	25.5
50°-60°	3367.7	28.9
60°-70°	962.9	8.3
70°-80°	74.8	0.6
80°-90°	15.6	0.1
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°	11648.0	100.0
0°-180°	11648.0	100.0

Coefficient of Utilization



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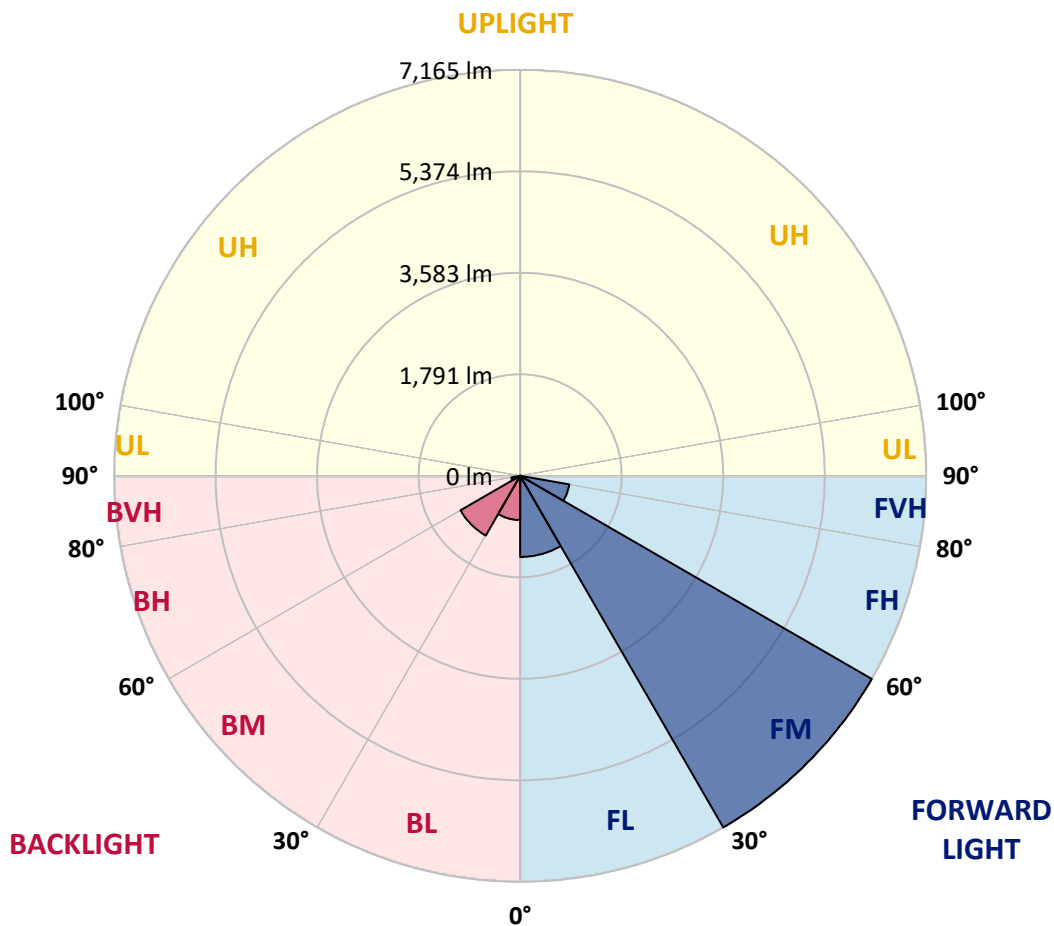
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1431.9	12.3			
FM (30°-60°)	7165.3	61.5			
FH (60°-80°)	879.7	7.6			G1/1800
FVH (80°-90°)	7.6	0.1			G0/10
BL (0°-30°)	780.6	6.7	B2/1000		
BM (30°-60°)	1217.0	10.4	B2/2500		
BH (60°-80°)	157.9	1.4	B1/500		G1/500
BVH (80°-90°)	8.0	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	2994.7	2994.7	2994.7	2994.7	2994.7	2994.7	2994.7	2994.7	2994.7	2994.7	2994.7
2.5°	2815.6	2842.7	2846.8	2880.2	2878.1	2934.3	2951.0	2953.1	2990.5	2971.8	3019.7
5°	2736.5	2721.9	2715.6	2774.0	2790.6	2840.6	2882.2	2907.2	2984.3	3011.4	3061.3
7.5°	2665.7	2665.7	2669.8	2721.9	2715.6	2780.2	2823.9	2901.0	3013.5	3036.4	3096.8
10°	2596.9	2571.9	2603.2	2657.3	2703.2	2732.3	2823.9	2896.8	3028.0	3094.7	3178.0
12.5°	2561.5	2574.0	2578.2	2617.8	2667.7	2755.2	2805.2	2926.0	3132.2	3171.7	3261.3
15°	2784.4	2759.4	2699.0	2663.6	2705.2	2746.9	2871.8	2994.7	3186.3	3242.5	3342.5
17.5°	3042.6	3021.8	2971.8	2876.0	2782.3	2859.3	2957.2	3069.7	3244.6	3327.9	3475.8
20°	3380.0	3346.7	3296.7	3109.2	3028.0	2944.7	3048.9	3182.1	3340.4	3415.4	3567.4
22.5°	3781.9	3781.9	3669.5	3442.5	3273.8	3194.6	3238.4	3315.4	3446.6	3548.7	3698.6
25°	4200.5	4188.0	4086.0	3850.6	3565.3	3471.6	3521.6	3575.7	3611.1	3667.4	3767.3
27.5°	4679.5	4606.6	4477.5	4217.2	3965.2	3784.0	3838.1	3790.2	3746.5	3775.7	3919.4
30°	5004.4	5050.2	4885.7	4635.8	4398.3	4196.3	4206.8	4165.1	3965.2	4006.8	4092.2
32.5°	5341.7	5370.9	5279.3	5141.8	4904.4	4669.1	4583.7	4548.3	4398.3	4417.1	4333.8
35°	5622.9	5679.1	5597.9	5537.5	5468.8	5279.3	5043.9	5158.5	4916.9	4871.1	4654.5
37.5°	5881.1	5864.5	5960.3	5897.8	5883.2	5749.9	5491.7	5514.6	5352.2	5341.7	5091.8
40°	6112.3	6116.5	6247.7	6276.8	6218.5	5981.1	5606.2	5787.4	5918.6	5931.1	5610.4
42.5°	6303.9	6360.1	6472.6	6707.9	6620.4	6224.7	5724.9	5922.8	6410.1	6487.1	6101.9
45°	6470.5	6585.0	6724.6	6934.9	6884.9	6570.4	6020.7	6201.8	6934.9	7136.9	6564.2
47.5°	6480.9	6630.8	6782.9	7095.2	7157.7	6755.8	6326.8	6643.3	7351.4	7570.1	6901.6
50°	6439.2	6518.4	6822.4	7161.9	7303.5	7057.8	6755.8	7014.0	7755.4	7892.9	7072.3
52.5°	5945.7	6006.1	6616.3	7224.4	7565.9	7399.3	7324.3	7530.5	8167.8	8269.8	7232.7
55°	4956.5	4946.1	5785.3	6909.9	7686.7	7905.4	7859.5	7932.4	8644.7	8736.3	7272.3
57.5°	3390.4	3579.9	4304.6	5754.1	6947.4	7786.7	7834.6	7713.8	8088.6	8124.0	6339.3
60°	1828.5	1907.6	2490.7	3840.2	5289.7	6345.5	6470.5	6251.8	6222.7	6122.7	4525.4
62.5°	726.8	766.4	1097.5	1901.4	2882.2	3856.9	4125.5	4036.0	3844.4	3582.0	2342.9
65°	345.7	370.7	545.6	889.2	1278.7	1607.7	1876.4	1959.7	1445.3	1301.6	772.6
67.5°	235.3	254.1	397.8	508.1	456.1	476.9	620.6	576.9	339.5	289.5	214.5
70°	179.1	191.6	318.6	345.7	204.1	143.7	160.4	149.9	139.5	141.6	139.5
72.5°	127.0	137.4	233.2	204.1	89.5	66.6	85.4	102.0	102.0	102.0	100.0
75°	77.1	87.5	135.4	79.1	35.4	35.4	54.1	68.7	72.9	75.0	70.8
77.5°	39.6	50.0	45.8	22.9	22.9	27.1	39.6	47.9	52.1	52.1	50.0
80°	8.3	8.3	8.3	12.5	22.9	29.2	39.6	43.7	50.0	50.0	45.8
82.5°	0.0	2.1	6.2	12.5	20.8	27.1	37.5	43.7	50.0	52.1	47.9
85°	0.0	2.1	4.2	8.3	14.6	16.7	14.6	12.5	12.5	12.5	12.5
87.5°	0.0	0.0	2.1	2.1	2.1	4.2	4.2	4.2	4.2	4.2	4.2
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°	2994.7	2994.7	2994.7	2994.7	2994.7	2994.7	2994.7	2994.7	2994.7	2994.7	2994.7
2.5°	3023.9	3030.1	3019.7	3017.6	3009.3	3034.3	2973.9	2959.3	2996.8	2961.4	2969.7
5°	3063.4	3078.0	3059.3	3028.0	2982.2	2911.4	2851.0	2771.9	2734.4	2707.3	2703.2
7.5°	3092.6	3103.0	3084.3	2984.3	2846.8	2667.7	2534.5	2436.6	2359.5	2336.6	2299.1
10°	3211.3	3213.4	3119.7	2898.9	2630.3	2394.9	2190.8	2040.9	1963.8	1915.9	1895.1
12.5°	3290.4	3286.3	3096.8	2730.2	2372.0	2059.6	1826.4	1645.2	1574.4	1551.5	1536.9
15°	3390.4	3367.5	3042.6	2557.4	2038.8	1701.4	1491.1	1366.2	1359.9	1345.3	1359.9
17.5°	3469.5	3405.0	2963.5	2242.9	1720.2	1401.6	1264.1	1272.4	1289.1	1303.7	1305.8
20°	3598.6	3465.4	2782.3	1968.0	1424.5	1201.6	1199.5	1237.0	1278.7	1295.3	1312.0
22.5°	3696.5	3490.4	2588.6	1674.4	1182.9	1120.4	1155.8	1212.0	1243.3	1259.9	1284.9
25°	3731.9	3421.6	2330.4	1380.7	1066.3	1082.9	1137.1	1174.6	1214.1	1232.9	1222.5
27.5°	3767.3	3386.2	2022.2	1137.1	1003.8	1057.9	1103.8	1141.2	1153.7	1178.7	1195.4
30°	3852.7	3263.4	1745.2	983.0	972.6	1041.3	1074.6	1087.1	1120.4	1135.0	1135.0
32.5°	3921.4	3215.5	1451.5	910.1	968.4	1049.6	1053.8	1053.8	1057.9	1047.5	1043.4
35°	4063.1	3050.9	1189.1	866.3	966.3	1051.7	1062.1	1026.7	930.9	893.4	883.0
37.5°	4238.0	2944.7	995.5	855.9	980.9	1076.7	1093.3	960.1	835.1	774.7	764.3
40°	4450.4	2869.8	868.4	851.8	1014.2	1135.0	1085.0	908.0	745.6	658.1	653.9
42.5°	4698.2	2801.0	783.0	849.7	1055.9	1195.4	1076.7	864.3	653.9	595.6	603.9
45°	4896.1	2763.5	724.7	835.1	1070.4	1230.8	1082.9	787.2	616.4	578.9	583.1
47.5°	5050.2	2684.4	676.8	810.1	1068.3	1243.3	1026.7	756.0	597.7	608.1	618.5
50°	5054.4	2578.2	616.4	756.0	1037.1	1220.4	962.1	726.8	593.5	637.3	658.1
52.5°	4998.1	2428.3	551.9	678.9	964.2	1141.2	903.8	714.3	574.8	570.6	595.6
55°	4798.2	2147.1	443.6	549.8	814.3	941.3	851.8	691.4	518.6	470.7	474.8
57.5°	3877.7	1539.0	327.0	393.6	576.9	689.3	768.5	681.0	466.5	399.8	401.9
60°	2401.2	872.6	239.5	268.6	356.1	418.6	622.7	633.1	416.5	337.4	333.2
62.5°	1232.9	431.1	185.3	189.5	218.7	245.7	426.9	531.1	376.9	320.7	320.7
65°	412.3	212.4	162.4	145.8	145.8	152.0	258.2	368.6	318.6	268.6	268.6
67.5°	177.0	158.3	141.6	127.0	116.6	110.4	145.8	214.5	237.4	204.1	195.8
70°	137.4	133.3	122.9	106.2	91.6	83.3	85.4	110.4	135.4	131.2	127.0
72.5°	102.0	102.0	97.9	83.3	70.8	60.4	56.2	58.3	64.6	66.6	68.7
75°	70.8	72.9	72.9	64.6	52.1	43.7	37.5	31.2	25.0	20.8	18.7
77.5°	47.9	50.0	54.1	47.9	39.6	29.2	22.9	16.7	10.4	4.2	4.2
80°	41.7	47.9	52.1	47.9	41.7	31.2	22.9	12.5	6.2	0.0	0.0
82.5°	43.7	47.9	54.1	45.8	39.6	29.2	22.9	14.6	6.2	2.1	0.0
85°	10.4	10.4	12.5	14.6	18.7	20.8	16.7	10.4	6.2	2.1	0.0
87.5°	4.2	4.2	4.2	4.2	4.2	2.1	2.1	2.1	2.1	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)