

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: P532921

Luminaire Tested: **GALN-SA8B-740-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532921
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-740-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30389 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

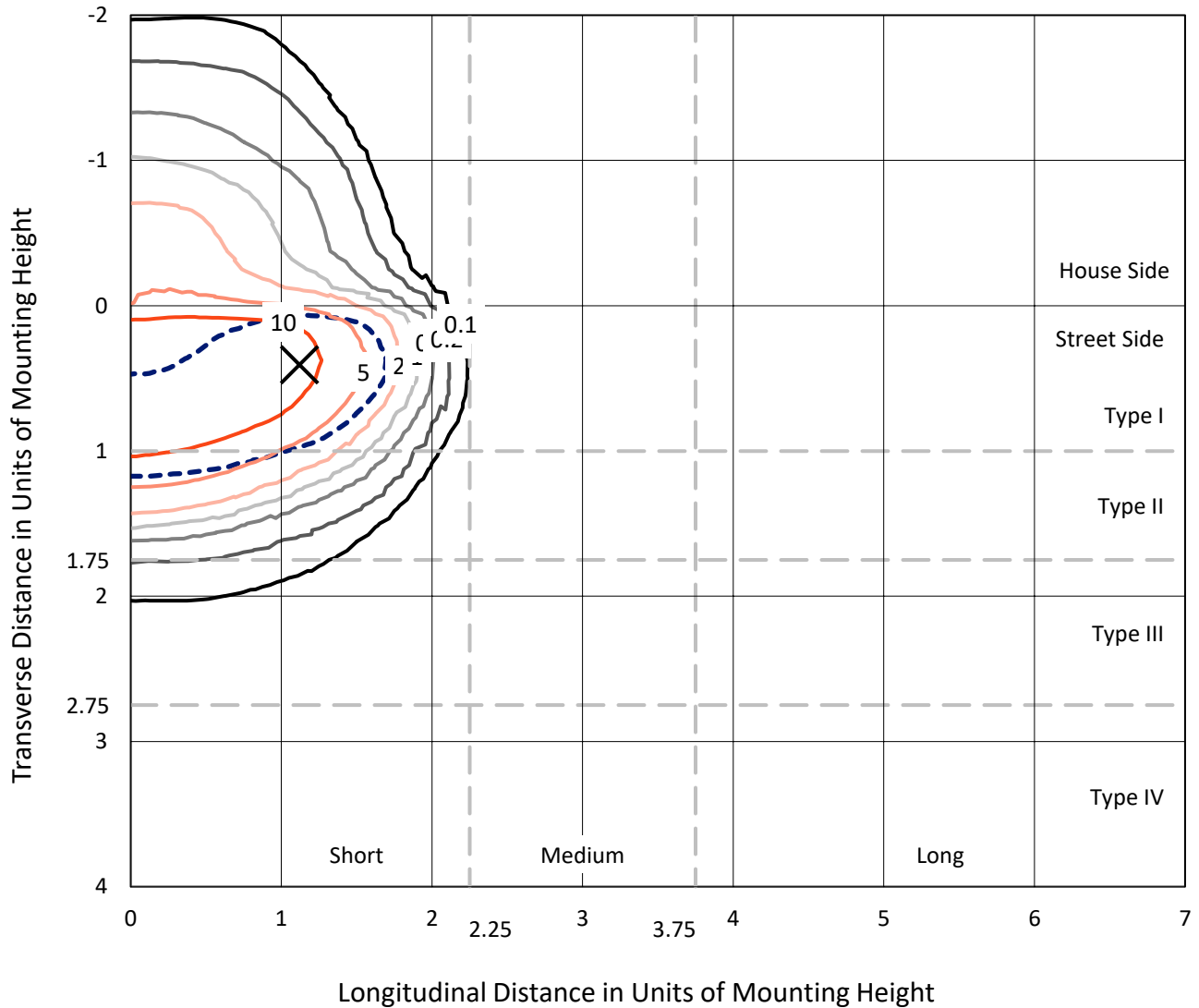
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

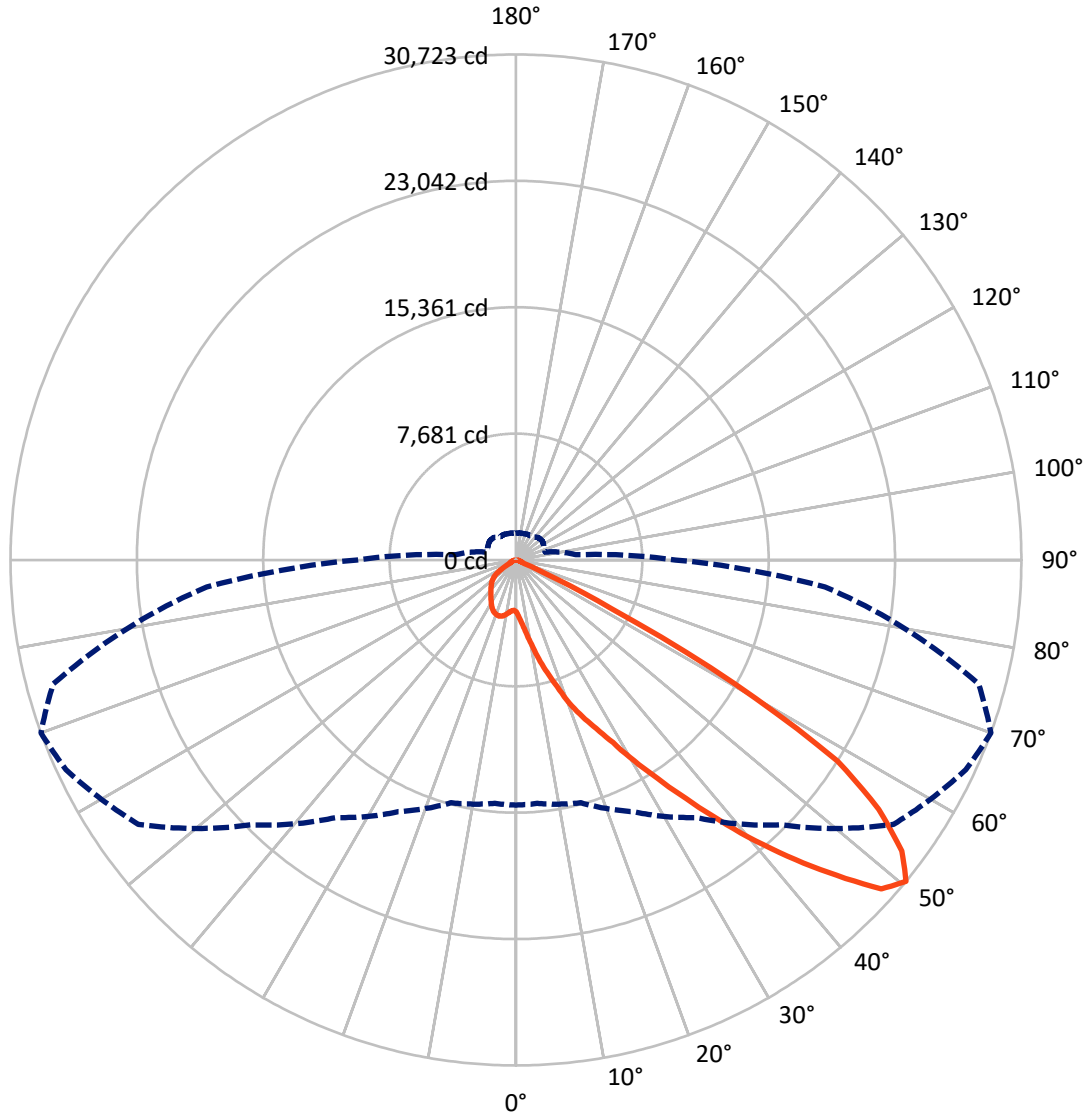
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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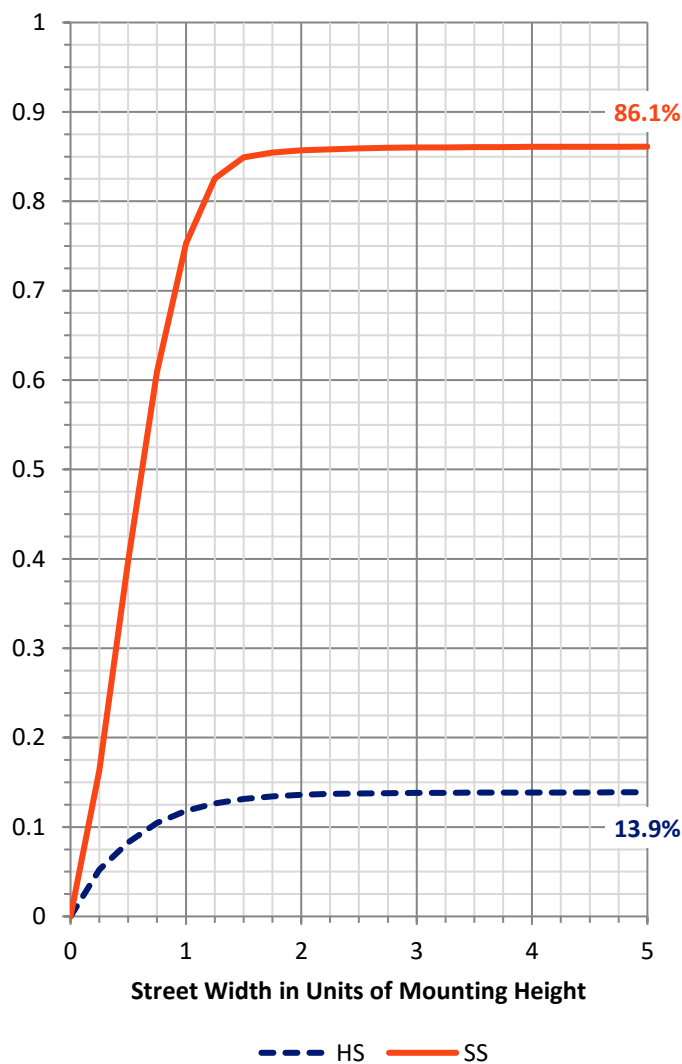
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4244.0	0.0	4244.0
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	26145.0	0.0	26145.0
	% Fixture	86.0	0.0	86.0
Total	Lumens	30389.0	0.0	30389.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	409.3	1.3
10°-20°	1770.6	5.8
20°-30°	3714.3	12.2
30°-40°	6402.3	21.1
40°-50°	9356.8	30.8
50°-60°	7287.4	24.0
60°-70°	1234.7	4.1
70°-80°	169.6	0.6
80°-90°	43.9	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°	30389.0	100.0
0°-180°	30389.0	100.0

Coefficient of Utilization



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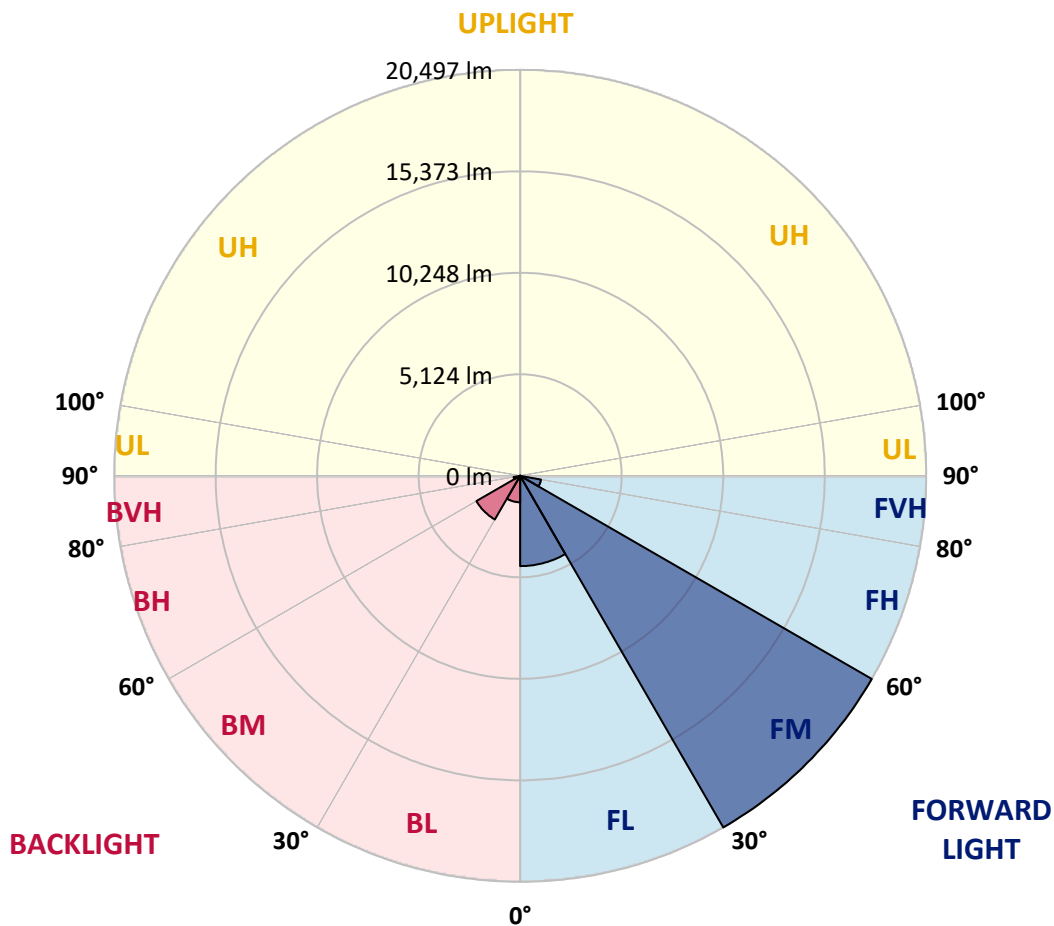
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4558.7	15.0			
FM (30°-60°)	20496.9	67.4			
FH (60°-80°)	1069.1	3.5			G1/1800
FVH (80°-90°)	20.3	0.1			G1/100
BL (0°-30°)	1335.5	4.4	B3/2500		
BM (30°-60°)	2549.7	8.4	B3/5000		
BH (60°-80°)	335.2	1.1	B1/500		G1/500
BVH (80°-90°)	23.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	3147.7	3147.7	3147.7	3147.7	3147.7	3147.7	3147.7	3147.7	3147.7	3147.7	3147.7
2.5°	4122.0	4092.0	4027.1	3907.1	3857.2	3737.3	3667.3	3532.4	3447.5	3352.6	3247.6
5°	5805.8	5650.9	5555.9	5421.0	5026.3	4781.5	4376.8	4032.1	3872.2	3697.3	3457.5
7.5°	7544.5	7444.6	7314.7	7024.9	6755.1	6245.4	5550.9	4791.5	4466.7	4167.0	3692.3
10°	8983.4	8703.6	8688.7	8473.8	8179.0	7569.5	6735.1	5790.8	5211.2	4771.5	4027.1
12.5°	9987.7	9732.9	9847.8	9822.8	9548.0	8988.4	8024.1	6775.1	6170.5	5486.0	4371.8
15°	10902.0	10797.1	10762.1	10732.2	10622.2	10207.5	9343.2	7974.2	7099.8	6275.4	4761.5
17.5°	11796.4	11526.6	11656.5	11681.5	11671.5	11296.8	10487.3	9113.3	8084.1	7109.8	5171.2
20°	12590.8	12615.8	12440.9	12405.9	12376.0	12361.0	11571.6	10242.5	9293.2	7984.2	5705.8
22.5°	13610.1	13435.2	13590.1	13490.2	13295.3	13175.4	12570.8	11241.8	10342.4	9038.4	6250.4
25°	14814.2	14954.1	14589.3	14549.4	14334.5	13919.8	13375.2	12361.0	11351.7	10017.7	6840.0
27.5°	16298.1	16053.3	15958.3	15738.5	15348.8	15173.9	14534.4	13515.1	12570.8	11046.9	7409.6
30°	17572.2	17507.2	17032.6	16772.8	16433.0	16428.0	15533.7	15079.0	14159.7	12660.8	8194.0
32.5°	18611.4	18326.6	18151.7	17971.9	17697.1	17772.0	17017.6	16777.8	15853.4	14159.7	9118.3
35°	19305.9	19101.1	18996.1	18721.3	18641.4	18976.1	18661.4	18561.4	17802.0	16268.1	10202.6
37.5°	19525.7	19590.7	19570.7	19226.0	19395.8	20300.2	20704.9	20445.1	20045.4	18491.5	11376.7
40°	19720.6	19765.6	19665.6	20070.3	20555.0	21584.2	23048.2	22618.5	22468.6	20744.9	13010.5
42.5°	19830.5	19795.5	19795.5	20495.0	21229.5	23298.0	25311.5	25026.7	24911.8	23143.1	14899.1
45°	19355.9	19016.1	19380.9	20330.2	21809.1	24142.4	27120.2	27514.9	27350.0	25996.0	17107.5
47.5°	17582.2	17792.0	17996.9	19265.9	21104.6	23882.6	28229.4	29573.4	29878.2	28394.3	18556.5
50°	14899.1	14854.2	15278.8	16877.7	19111.0	22763.4	28014.5	30168.0	30722.6	29113.7	18861.2
52.5°	10837.1	11166.8	11626.5	13215.4	15863.4	19865.5	25241.6	28634.1	29373.6	28229.4	18661.4
55°	6310.4	5945.7	6979.9	8323.9	10822.1	14984.1	21339.4	25381.5	26750.5	26620.6	17652.1
57.5°	2528.2	2448.2	2803.0	3777.2	5645.9	9288.2	15518.7	20854.8	23048.2	24382.2	15513.7
60°	1109.2	1084.2	1274.1	1538.9	2308.3	4281.9	8488.8	12970.5	15258.9	17037.6	10677.2
62.5°	799.4	789.4	884.4	979.3	1219.1	1863.6	3567.4	5226.2	6515.2	7869.3	4781.5
65°	644.5	669.5	734.5	784.4	899.3	1034.2	1259.1	1453.9	1783.7	1848.7	1054.2
67.5°	524.6	544.6	604.6	659.5	679.5	559.6	579.6	509.6	509.6	454.7	364.7
70°	384.7	389.7	459.7	524.6	419.7	224.8	394.7	394.7	354.7	339.8	309.8
72.5°	284.8	289.8	344.7	324.8	164.9	139.9	289.8	319.8	289.8	274.8	249.8
75°	209.8	214.8	179.9	74.9	69.9	89.9	169.9	219.8	209.8	204.9	189.9
77.5°	40.0	30.0	25.0	35.0	50.0	74.9	109.9	134.9	139.9	149.9	139.9
80°	5.0	5.0	15.0	30.0	55.0	79.9	114.9	129.9	134.9	139.9	129.9
82.5°	0.0	5.0	15.0	30.0	55.0	74.9	99.9	114.9	124.9	129.9	124.9
85°	0.0	5.0	10.0	25.0	45.0	55.0	50.0	35.0	30.0	35.0	25.0
87.5°	0.0	0.0	5.0	5.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
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°	3147.7	3147.7	3147.7	3147.7	3147.7	3147.7	3147.7	3147.7	3147.7	3147.7	3147.7
2.5°	3187.7	3167.7	3097.7	3022.8	2957.8	2987.8	2957.8	2932.9	2942.9	2932.9	2922.9
5°	3362.5	3272.6	3122.7	3057.8	3002.8	2997.8	2982.8	2977.8	2982.8	2982.8	2937.9
7.5°	3527.4	3382.5	3222.6	3152.7	3087.7	3092.7	3057.8	3057.8	3052.8	3027.8	3017.8
10°	3777.2	3582.4	3377.5	3252.6	3172.7	3157.7	3122.7	3087.7	3087.7	3087.7	3037.8
12.5°	4052.0	3807.2	3527.4	3382.5	3287.6	3212.7	3157.7	3147.7	3092.7	3082.7	3057.8
15°	4291.9	3982.1	3627.4	3427.5	3307.6	3207.7	3122.7	3067.8	3042.8	3027.8	3007.8
17.5°	4526.7	4132.0	3682.3	3427.5	3297.6	3182.7	3092.7	3042.8	2982.8	2992.8	2952.8
20°	4841.5	4291.9	3697.3	3362.5	3202.7	3092.7	2972.8	2947.8	2912.9	2882.9	2892.9
22.5°	5146.2	4406.8	3652.3	3282.6	3052.8	2922.9	2862.9	2832.9	2817.9	2793.0	2758.0
25°	5421.0	4531.7	3582.4	3137.7	2892.9	2798.0	2743.0	2738.0	2703.0	2703.0	2638.1
27.5°	5700.8	4576.7	3462.5	2967.8	2753.0	2698.0	2673.0	2663.1	2648.1	2613.1	2568.1
30°	6020.6	4591.6	3287.6	2793.0	2628.1	2568.1	2603.1	2628.1	2563.1	2498.2	2518.2
32.5°	6285.4	4556.7	3077.8	2628.1	2538.1	2508.2	2578.1	2603.1	2528.2	2458.2	2423.2
35°	6605.2	4471.7	2872.9	2498.2	2448.2	2508.2	2568.1	2568.1	2418.2	2333.3	2313.3
37.5°	7089.8	4376.8	2683.0	2388.3	2353.3	2478.2	2558.1	2503.2	2268.3	2163.4	2138.4
40°	7609.4	4316.8	2498.2	2278.3	2303.3	2428.2	2473.2	2303.3	2063.5	1998.5	1978.6
42.5°	8363.9	4196.9	2333.3	2183.4	2258.4	2358.3	2358.3	2053.5	1963.6	1928.6	1923.6
45°	9303.2	4112.0	2188.4	2103.5	2193.4	2218.4	2138.4	1923.6	1858.6	1848.7	1853.6
47.5°	9762.9	3947.1	2038.5	2008.5	2073.5	2078.5	1868.6	1818.7	1763.7	1748.7	1738.7
50°	9692.9	3652.3	1843.7	1883.6	1973.6	1923.6	1703.8	1713.7	1663.8	1658.8	1633.8
52.5°	9203.3	3187.7	1648.8	1743.7	1843.7	1698.8	1568.9	1558.9	1558.9	1493.9	1468.9
55°	8159.0	2568.1	1414.0	1533.9	1653.8	1429.0	1394.0	1384.0	1359.0	1299.1	1284.1
57.5°	6460.3	1883.6	1064.2	1194.1	1404.0	1214.1	1209.1	1164.2	1099.2	1054.2	1054.2
60°	3842.2	1084.2	669.5	729.5	929.3	984.3	1094.2	1074.2	964.3	894.3	874.4
62.5°	1753.7	559.6	424.7	434.7	499.6	639.5	859.4	994.3	839.4	719.5	709.5
65°	589.6	414.7	349.7	334.8	344.7	384.7	514.6	704.5	669.5	554.6	534.6
67.5°	359.7	369.7	329.8	304.8	304.8	299.8	294.8	319.8	394.7	384.7	389.7
70°	309.8	339.8	304.8	274.8	264.8	249.8	209.8	174.9	149.9	174.9	184.9
72.5°	249.8	269.8	259.8	234.8	209.8	189.9	149.9	114.9	84.9	74.9	74.9
75°	184.9	199.9	209.8	179.9	159.9	134.9	109.9	74.9	45.0	30.0	30.0
77.5°	134.9	149.9	154.9	139.9	119.9	94.9	69.9	50.0	25.0	10.0	10.0
80°	114.9	134.9	149.9	139.9	124.9	89.9	65.0	35.0	20.0	5.0	5.0
82.5°	109.9	134.9	149.9	134.9	119.9	84.9	65.0	40.0	15.0	5.0	5.0
85°	25.0	35.0	45.0	55.0	65.0	65.0	50.0	30.0	15.0	5.0	5.0
87.5°	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	5.0	5.0	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)