

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: P530519

Luminaire Tested: **GALN-SA5D-730-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530519
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-730-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20594 lumens
Efficiency: N/A
Efficacy: 66.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

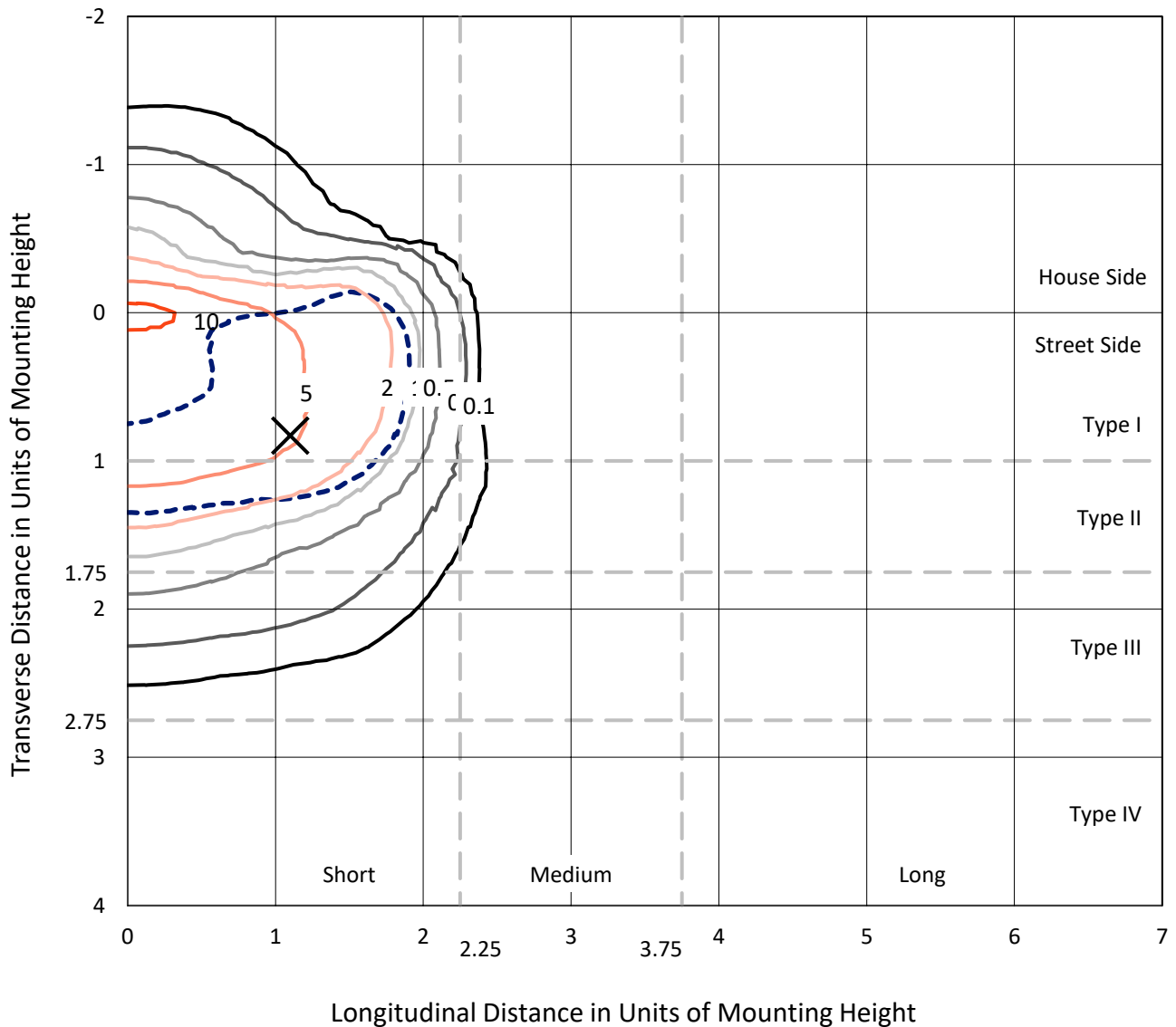
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

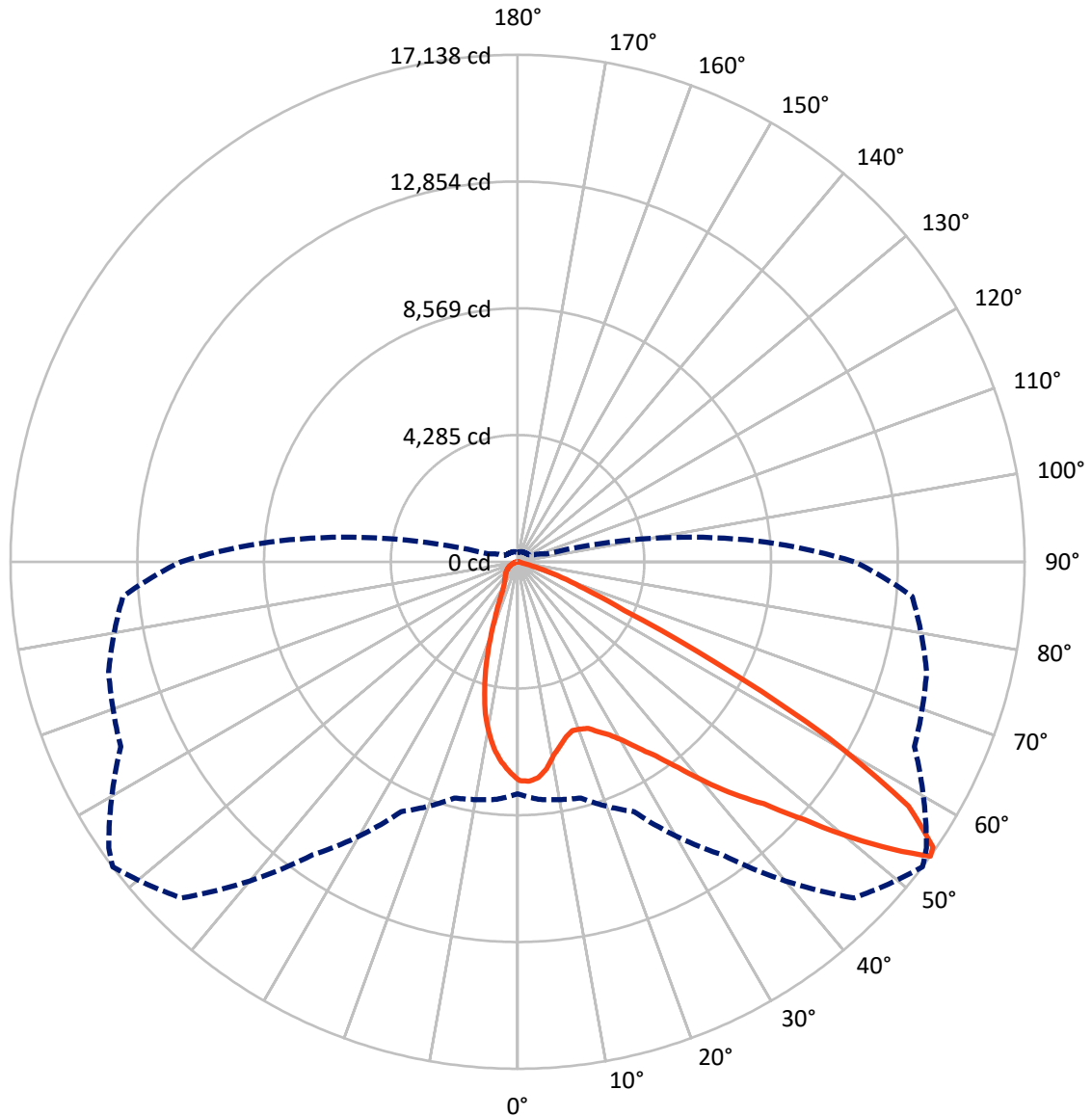
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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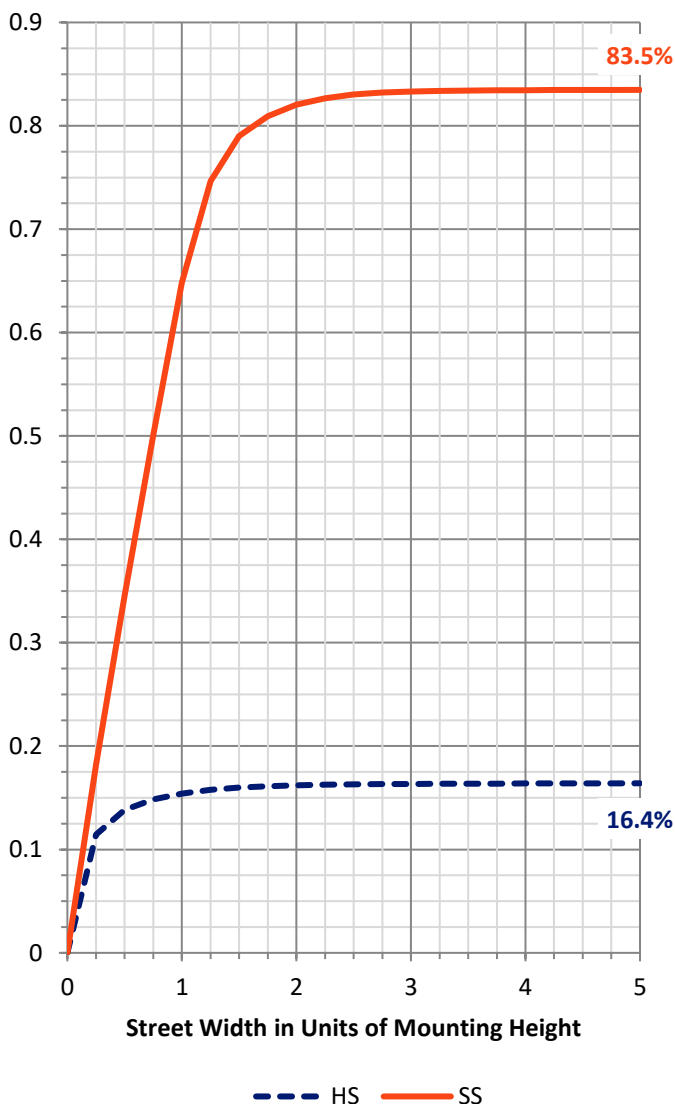
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3407.3	0.0	3407.3
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	17186.7	0.0	17186.7
	% Fixture	83.5	0.0	83.5
Total	Lumens	20594.0	0.0	20594.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	634.6	3.1
10°-20°	1455.0	7.1
20°-30°	2067.9	10.0
30°-40°	3191.4	15.5
40°-50°	5003.8	24.3
50°-60°	5812.6	28.2
60°-70°	2196.3	10.7
70°-80°	208.9	1.0
80°-90°	23.5	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°	20594.0	100.0
0°-180°	20594.0	100.0

Coefficient of Utilization

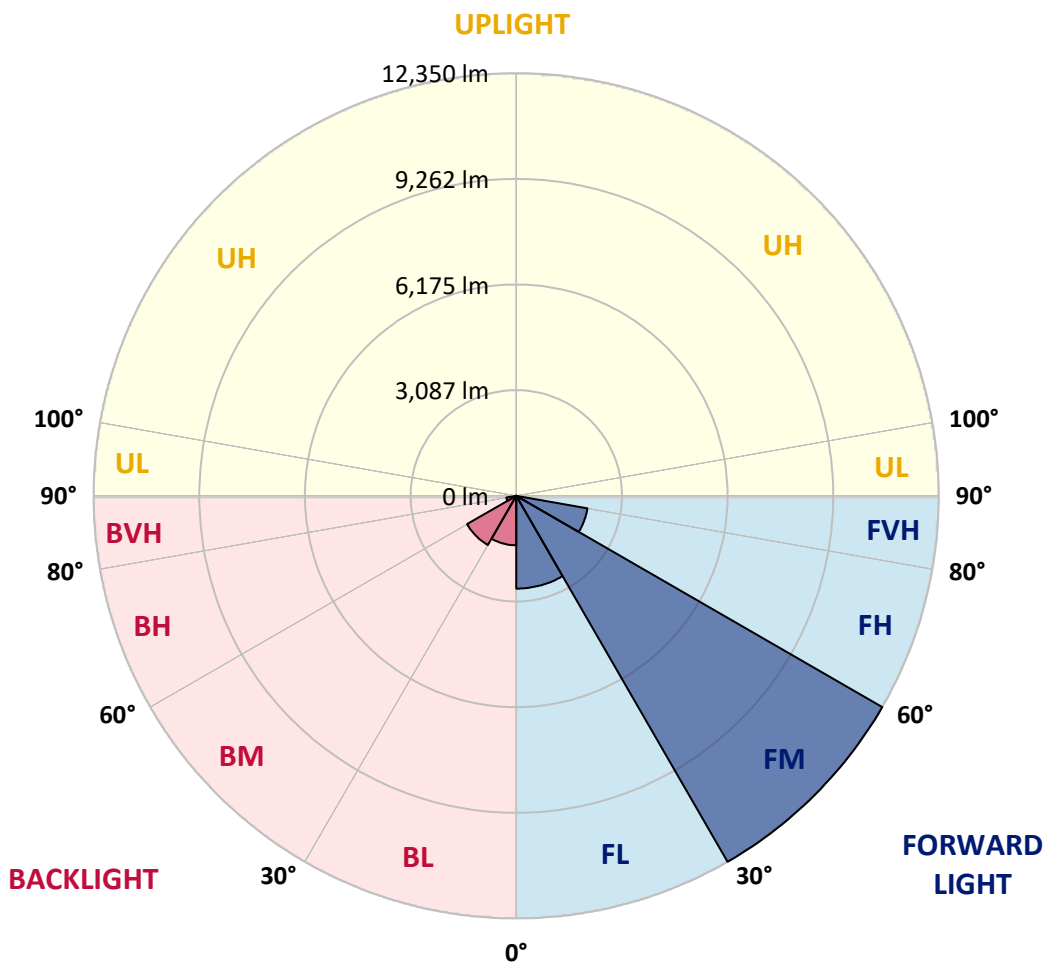


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2711.7	13.2			
FM (30°-60°)	12349.6	60.0			
FH (60°-80°)	2113.3	10.3			G2/5000
FVH (80°-90°)	12.1	0.1			G1/100
BL (0°-30°)	1445.9	7.0	B3/2500		
BM (30°-60°)	1658.1	8.1	B2/2500		
BH (60°-80°)	291.9	1.4	B1/500		G1/500
BVH (80°-90°)	11.4	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	7397.0	7397.0	7397.0	7397.0	7397.0	7397.0	7397.0	7397.0	7397.0	7397.0	7397.0
2.5°	7358.7	7293.4	7358.7	7366.3	7412.4	7454.6	7427.7	7489.1	7454.6	7416.2	7404.7
5°	6764.0	6852.2	6856.1	6994.2	6963.5	7216.7	7328.0	7297.3	7485.3	7473.8	7446.9
7.5°	6230.7	6196.2	6242.2	6403.3	6606.7	6898.3	7059.4	7055.6	7324.1	7516.0	7496.8
10°	5735.8	5731.9	5827.8	5954.4	6127.1	6434.0	6656.5	6767.8	7186.0	7477.6	7519.8
12.5°	5402.0	5386.6	5490.2	5593.8	5866.2	6104.1	6388.0	6441.7	6921.3	7343.3	7412.4
15°	5183.3	5217.8	5225.5	5425.0	5597.6	5912.2	6134.8	6246.0	6798.5	7235.9	7500.6
17.5°	5144.9	5191.0	5194.8	5359.8	5543.9	5808.7	6004.3	6154.0	6694.9	7289.6	7504.4
20°	5221.6	5194.8	5217.8	5321.4	5501.7	5754.9	6038.9	6088.7	6660.4	7316.4	7546.6
22.5°	5440.3	5432.7	5375.1	5459.5	5586.1	5850.9	6119.4	6196.2	6760.1	7454.6	7581.2
25°	5682.0	5724.2	5670.5	5659.0	5747.3	6008.2	6365.0	6464.7	7093.9	7703.9	7688.6
27.5°	6134.8	6092.6	6092.6	6038.9	6015.8	6142.4	6629.7	6794.7	7466.1	8026.2	7811.4
30°	6568.3	6614.3	6579.8	6599.0	6445.5	6434.0	7005.7	7209.0	8126.0	8517.3	8072.3
32.5°	7255.1	7193.7	7251.2	7201.3	6998.0	6790.8	7516.0	7727.0	8924.0	9081.3	8463.6
35°	7826.7	7799.9	8045.4	8037.7	7707.8	7504.4	8056.9	8371.5	9480.3	9756.5	8924.0
37.5°	8640.1	8590.2	8870.3	9004.6	8709.1	8406.1	8831.9	9196.4	9998.3	10297.5	9395.9
40°	9476.5	9603.1	9979.1	10201.6	9887.0	9484.1	9779.6	9890.8	10343.5	10650.5	9718.2
42.5°	10535.4	10719.5	11103.2	11295.0	11268.2	10830.8	10742.6	10738.7	10592.9	10550.7	9956.0
45°	11552.1	11483.0	12073.9	12492.1	12829.7	12703.1	11671.0	11555.9	10988.1	10700.4	10017.4
47.5°	11997.1	11974.1	12377.0	13121.3	14272.3	14429.6	13021.5	12576.5	11655.7	11329.6	10351.2
50°	11421.6	11540.6	11939.6	12764.5	14529.3	15730.2	14678.9	14080.4	12434.5	12096.9	11141.6
52.5°	9541.7	9622.3	10002.1	11049.5	13654.6	16497.5	16267.3	15922.0	13865.6	13305.4	12518.9
54°	7845.9	8060.8	8267.9	9319.2	12096.9	16071.6	17138.2	16873.5	14797.9	14310.6	13386.0
55°	6833.0	6959.6	7109.3	8156.7	11018.8	15350.3	17038.5	17061.5	15423.2	14625.2	13969.2
57.5°	4991.5	5079.7	4926.2	5390.5	7565.8	12465.2	15584.4	16205.9	16267.3	15097.1	14326.0
60°	3813.6	3852.0	3679.3	3752.2	4703.7	8555.7	12054.7	12802.8	14675.1	13194.2	12135.3
62.5°	2958.0	2965.7	2961.9	3088.5	3242.0	5033.7	7539.0	8202.7	10117.2	9369.0	8241.1
65°	2179.2	2144.7	2206.1	2589.7	2766.2	3165.2	3970.9	4454.3	5497.9	4642.3	3318.7
67.5°	1411.9	1423.4	1484.8	1926.0	2371.0	2428.6	2443.9	2405.6	2409.4	1327.5	832.5
70°	847.9	867.1	847.9	1089.6	1695.8	1741.8	1592.2	1553.8	1212.4	314.6	310.8
72.5°	502.6	475.7	425.9	468.1	705.9	844.1	759.7	755.8	475.7	184.2	184.2
75°	211.0	191.8	157.3	142.0	188.0	180.3	180.3	161.1	126.6	122.8	115.1
77.5°	42.2	42.2	30.7	34.5	46.0	53.7	65.2	65.2	76.7	76.7	72.9
80°	0.0	3.8	11.5	23.0	34.5	49.9	57.5	57.5	65.2	65.2	53.7
82.5°	0.0	3.8	11.5	23.0	30.7	46.0	57.5	57.5	65.2	69.1	57.5
85°	0.0	3.8	11.5	19.2	30.7	38.4	38.4	34.5	26.9	23.0	15.3
87.5°	0.0	0.0	3.8	7.7	3.8	7.7	7.7	7.7	7.7	7.7	7.7
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°	7397.0	7397.0	7397.0	7397.0	7397.0	7397.0	7397.0	7397.0	7397.0	7397.0	7397.0
2.5°	7431.5	7427.7	7335.6	7186.0	7151.5	7024.9	7009.5	6932.8	6975.0	6833.0	6817.7
5°	7370.2	7324.1	7212.9	7116.9	6836.9	6637.4	6480.1	6288.2	6177.0	6196.2	6123.3
7.5°	7458.4	7339.5	7143.8	6810.0	6468.6	6119.4	5931.4	5540.1	5398.1	5187.1	5156.4
10°	7366.3	7278.1	6975.0	6422.5	5950.6	5448.0	5006.8	4573.3	4243.3	4101.4	4070.7
12.5°	7358.7	7205.2	6698.8	6084.9	5402.0	4680.7	4040.0	3499.0	3172.9	2988.7	2946.5
15°	7239.7	7055.6	6388.0	5563.1	4619.3	3721.5	3023.3	2501.5	2252.1	2144.7	2175.4
17.5°	7251.2	6975.0	6077.2	5010.6	3848.1	2731.7	2064.1	1795.5	1730.3	1757.2	1757.2
20°	7239.7	6794.7	5701.2	4373.8	2946.5	1895.3	1515.5	1419.6	1461.8	1546.2	1527.0
22.5°	7178.3	6710.3	5355.9	3702.3	2167.7	1404.2	1216.2	1220.0	1285.3	1388.9	1411.9
25°	7224.4	6522.3	4918.6	3023.3	1580.7	1120.3	1055.1	1081.9	1151.0	1227.7	1243.1
27.5°	7189.8	6388.0	4462.0	2348.0	1154.8	963.0	959.2	989.8	1020.5	1078.1	1078.1
30°	7228.2	6265.2	4013.1	1745.7	951.5	882.4	867.1	890.1	920.8	932.3	928.5
32.5°	7370.2	6173.1	3495.2	1304.5	840.2	805.7	805.7	805.7	801.9	817.2	821.0
35°	7680.9	6188.5	3038.6	1009.0	767.3	740.5	729.0	713.6	705.9	713.6	717.4
37.5°	8018.6	6180.8	2566.7	859.4	713.6	690.6	663.7	640.7	636.9	644.6	633.0
40°	8168.2	6253.7	2129.3	771.2	663.7	636.9	594.7	575.5	579.3	587.0	579.3
42.5°	8371.5	6276.7	1845.4	702.1	617.7	575.5	548.6	525.6	521.8	533.3	529.5
45°	8367.7	6146.3	1546.2	663.7	575.5	529.5	494.9	475.7	475.7	483.4	487.3
47.5°	8613.2	6127.1	1327.5	629.2	544.8	498.8	456.6	441.2	437.4	437.4	429.7
50°	9184.9	6395.7	1158.7	590.8	506.4	464.2	429.7	410.5	395.2	387.5	383.7
52.5°	10301.3	7232.0	1028.2	544.8	464.2	429.7	399.0	383.7	364.5	345.3	341.5
54°	11383.3	8095.3	1020.5	506.4	429.7	406.7	379.8	372.2	349.1	322.3	314.6
55°	11870.5	8597.9	1047.4	475.7	406.7	391.3	368.3	360.6	337.6	306.9	303.1
57.5°	12273.4	8793.5	1032.1	395.2	368.3	364.5	345.3	333.8	306.9	264.7	257.1
60°	9879.3	6648.9	740.5	349.1	337.6	329.9	314.6	306.9	272.4	226.4	222.5
62.5°	6242.2	3825.1	471.9	306.9	295.4	283.9	264.7	257.1	226.4	180.3	168.8
65°	2658.8	1584.5	318.4	272.4	253.2	234.0	218.7	207.2	180.3	134.3	130.4
67.5°	690.6	564.0	264.7	237.9	211.0	184.2	172.6	153.5	122.8	92.1	88.2
70°	310.8	283.9	222.5	199.5	168.8	142.0	126.6	107.4	80.6	61.4	57.5
72.5°	184.2	180.3	168.8	149.6	126.6	107.4	92.1	72.9	53.7	34.5	34.5
75°	115.1	111.3	115.1	103.6	88.2	80.6	69.1	49.9	30.7	15.3	15.3
77.5°	69.1	69.1	69.1	65.2	61.4	61.4	49.9	30.7	15.3	3.8	3.8
80°	53.7	53.7	57.5	53.7	53.7	53.7	42.2	23.0	7.7	0.0	0.0
82.5°	53.7	57.5	65.2	61.4	53.7	46.0	38.4	23.0	7.7	0.0	0.0
85°	15.3	11.5	19.2	26.9	38.4	34.5	26.9	19.2	7.7	0.0	0.0
87.5°	7.7	7.7	7.7	7.7	3.8	3.8	3.8	3.8	3.8	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)