

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: P534263

Luminaire Tested: **GALN-SA9D-730-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534263
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-SA9D-730-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 37280 lumens
Efficiency: N/A
Efficacy: 67.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G2

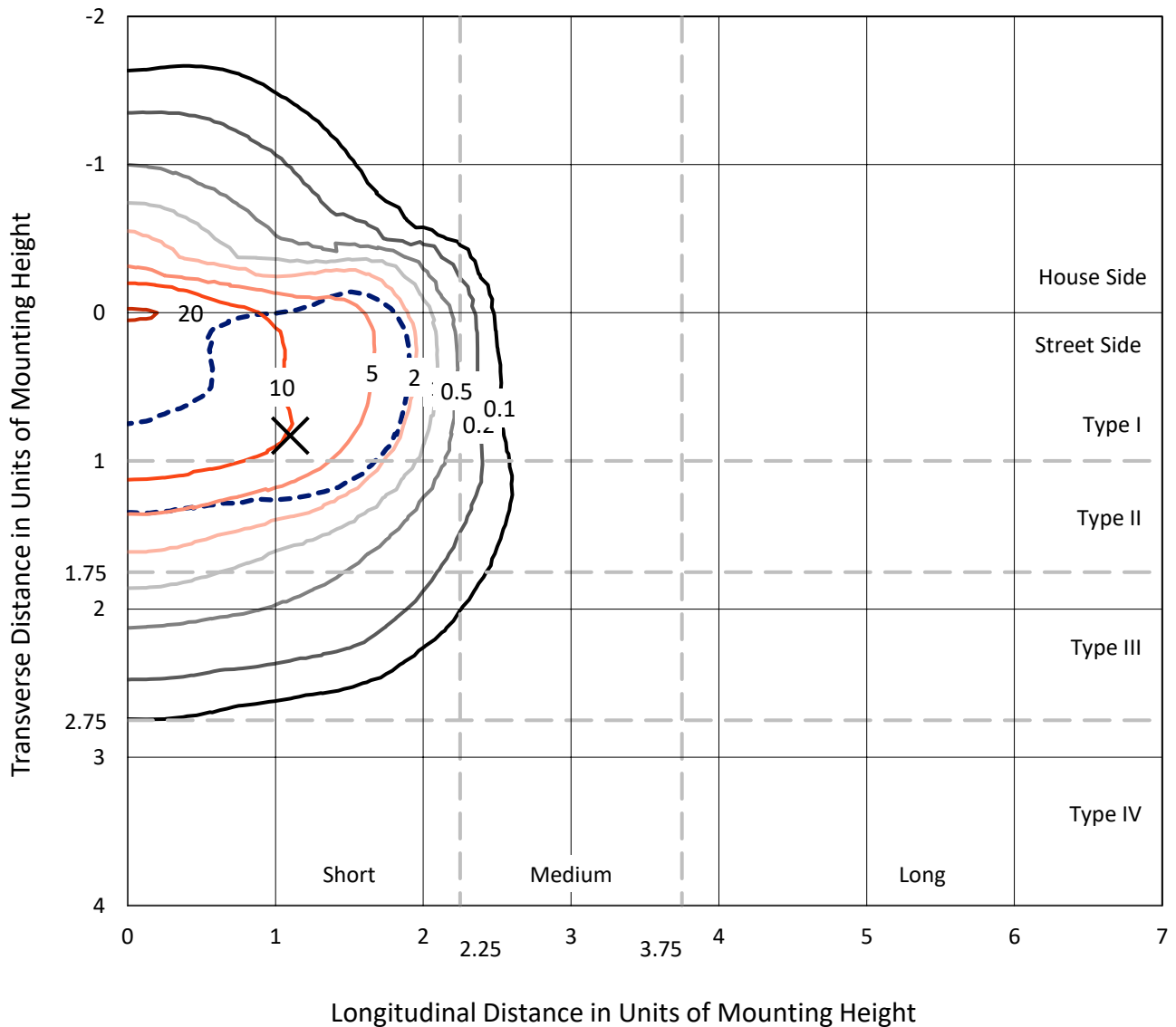
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

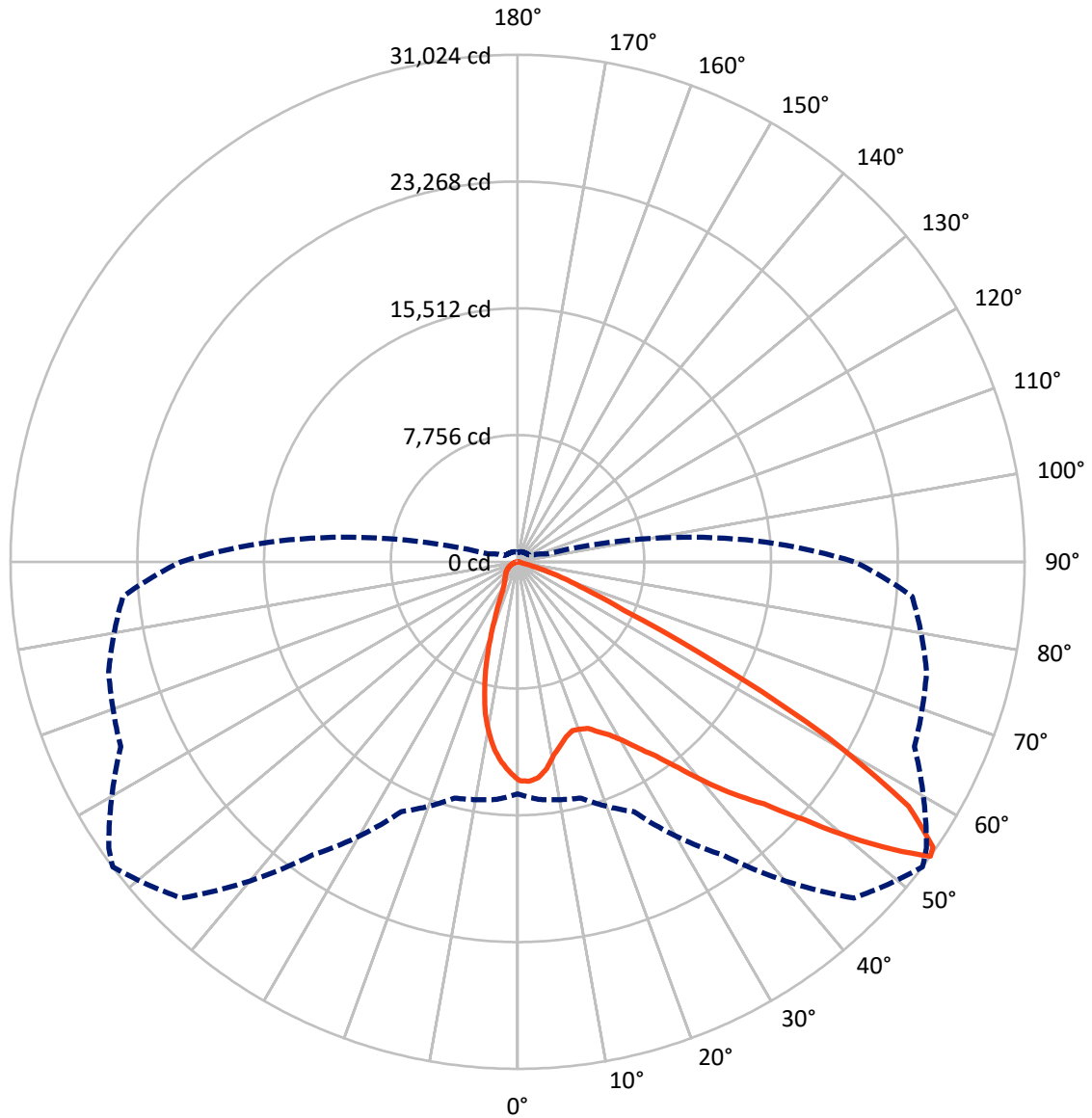
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.4 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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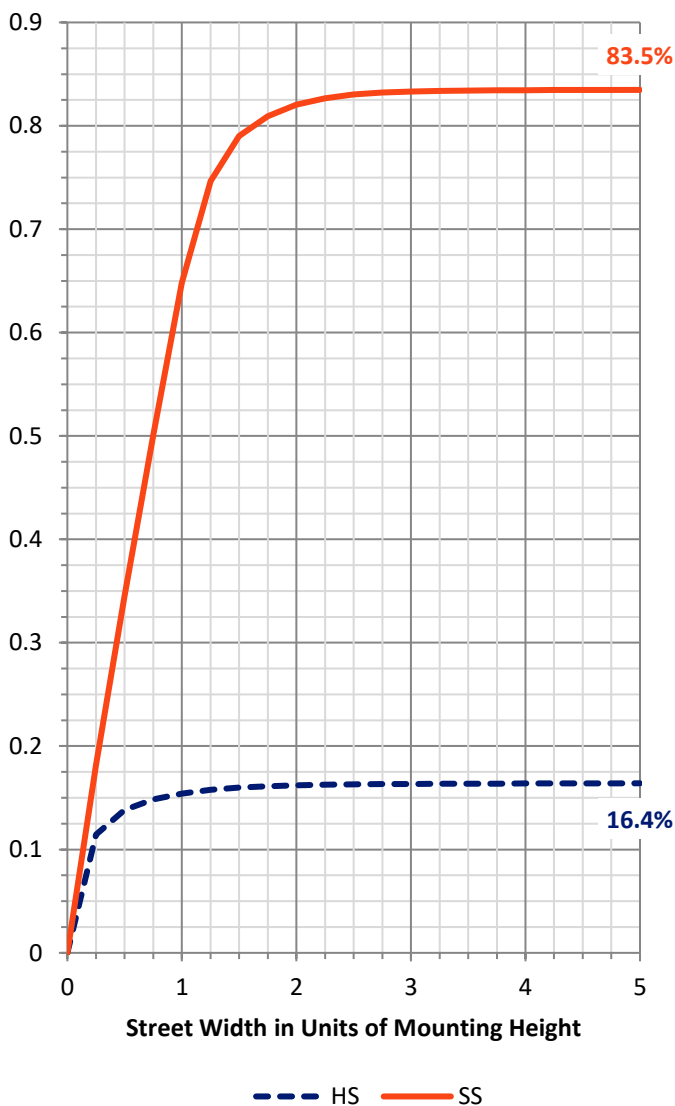
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6168.1	0.0	6168.1
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	31111.9	0.0	31111.9
	% Fixture	83.5	0.0	83.5
Total	Lumens	37280.0	0.0	37280.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1148.9	3.1
10°-20°	2634.0	7.1
20°-30°	3743.4	10.0
30°-40°	5777.1	15.5
40°-50°	9058.0	24.3
50°-60°	10522.1	28.2
60°-70°	3975.9	10.7
70°-80°	378.1	1.0
80°-90°	42.5	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°	37280.0	100.0
0°-180°	37280.0	100.0

Coefficient of Utilization

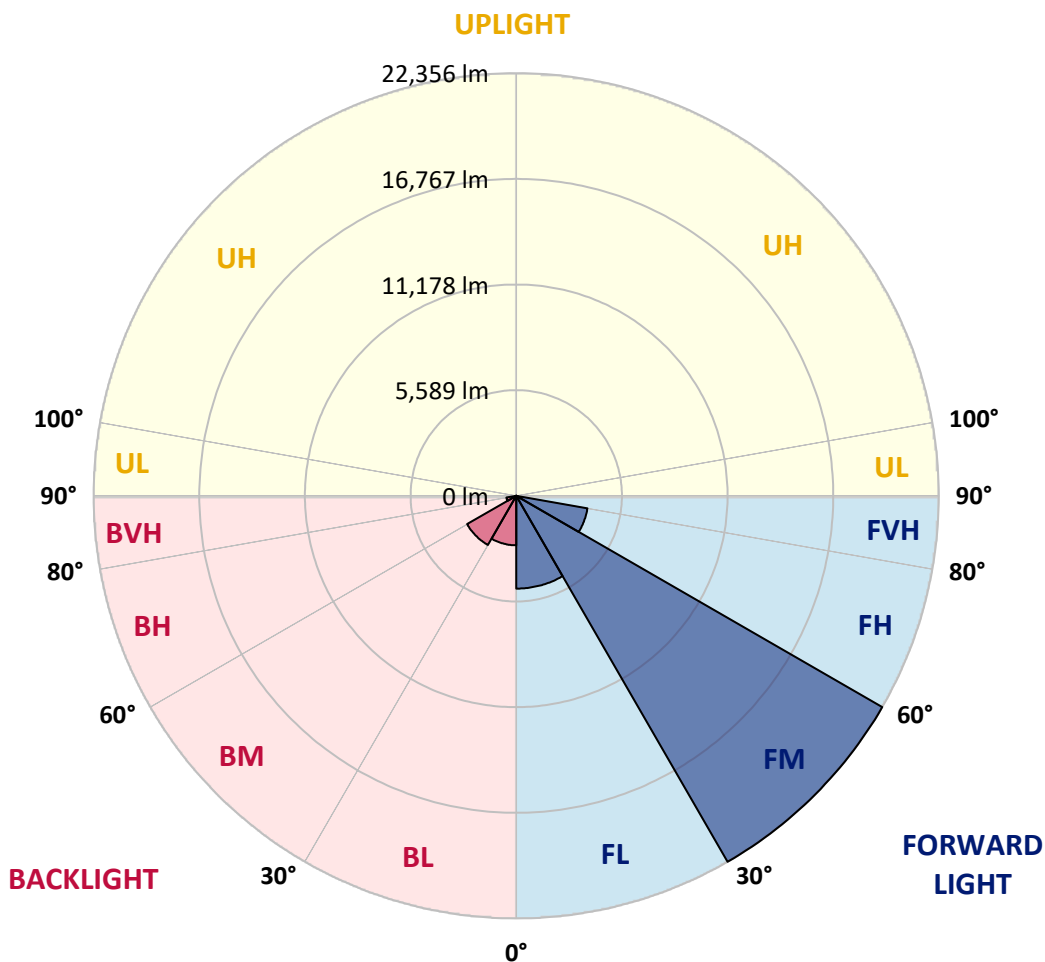


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4908.8	13.2			
FM (30°-60°)	22355.6	60.0			
FH (60°-80°)	3825.5	10.3			G2/5000
FVH (80°-90°)	22.0	0.1			G1/100
BL (0°-30°)	2617.5	7.0	B4/5000		
BM (30°-60°)	3001.6	8.1	B3/5000		
BH (60°-80°)	528.5	1.4	B2/1000		G2/1000
BVH (80°-90°)	20.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	13390.3	13390.3	13390.3	13390.3	13390.3	13390.3	13390.3	13390.3	13390.3	13390.3	13390.3
2.5°	13320.9	13202.8	13320.9	13334.8	13418.1	13494.5	13445.9	13557.0	13494.5	13425.1	13404.2
5°	12244.4	12404.1	12411.1	12661.1	12605.5	13063.9	13265.3	13209.8	13550.1	13529.3	13480.6
7.5°	11279.0	11216.5	11299.8	11591.5	11959.6	12487.5	12779.2	12772.2	13258.4	13605.6	13570.9
10°	10383.1	10376.1	10549.8	10779.0	11091.5	11647.1	12049.9	12251.3	13008.4	13536.2	13612.6
12.5°	9778.8	9751.1	9938.6	10126.1	10619.2	11049.8	11563.8	11661.0	12529.1	13293.1	13418.1
15°	9383.0	9445.5	9459.4	9820.5	10133.0	10702.6	11105.4	11306.8	12306.9	13098.6	13577.9
17.5°	9313.5	9396.9	9403.8	9702.4	10035.8	10515.0	10869.2	11140.1	12119.4	13195.9	13584.8
20°	9452.4	9403.8	9445.5	9633.0	9959.4	10417.8	10931.7	11022.0	12056.9	13244.5	13661.2
22.5°	9848.3	9834.4	9730.2	9883.0	10112.2	10591.4	11077.6	11216.5	12237.4	13494.5	13723.7
25°	10285.8	10362.2	10265.0	10244.2	10403.9	10876.2	11522.1	11702.7	12841.7	13946.0	13918.2
27.5°	11105.4	11029.0	11029.0	10931.7	10890.1	11119.3	12001.3	12300.0	13515.4	14529.4	14140.4
30°	11890.2	11973.5	11911.0	11945.7	11667.9	11647.1	12681.9	13050.0	14709.9	15418.3	14612.7
32.5°	13133.4	13022.3	13126.4	13036.1	12668.0	12293.0	13605.6	13987.6	16154.5	16439.3	15321.1
35°	14168.2	14119.6	14564.1	14550.2	13952.9	13584.8	14584.9	15154.4	17161.6	17661.6	16154.5
37.5°	15640.6	15550.3	16057.3	16300.4	15765.6	15216.9	15987.9	16647.6	18099.2	18640.9	17008.8
40°	17154.6	17383.8	18064.5	18467.3	17897.8	17168.5	17703.3	17904.7	18724.3	19279.9	17592.2
42.5°	19071.5	19404.9	20099.4	20446.7	20398.1	19606.3	19446.6	19439.6	19175.7	19099.3	18022.8
45°	20912.0	20787.0	21856.5	22613.6	23224.8	22995.6	21127.3	20918.9	19891.1	19370.2	18133.9
47.5°	21717.6	21676.0	22405.2	23752.6	25836.1	26120.9	23572.0	22766.4	21099.5	20509.2	18738.2
50°	20675.9	20891.2	21613.5	23106.7	26301.5	28475.3	26572.3	25488.9	22509.4	21898.2	20168.9
52.5°	17272.7	17418.6	18106.1	20002.2	24718.0	29864.4	29447.7	28822.6	25100.0	24086.0	22662.2
54°	14202.9	14591.9	14966.9	16869.9	21898.2	29093.4	31024.2	30545.0	26787.6	25905.6	24231.8
55°	12369.4	12598.6	12869.5	14765.5	19946.6	27787.7	30843.6	30885.3	27919.7	26475.1	25287.5
57.5°	9035.7	9195.4	8917.6	9758.0	13695.9	22565.0	28211.4	29336.5	29447.7	27329.4	25933.4
60°	6903.5	6973.0	6660.4	6792.4	8514.8	15487.8	21821.8	23176.1	26565.4	23884.5	21967.7
62.5°	5354.7	5368.6	5361.7	5590.9	5868.7	9112.1	13647.3	14848.8	18314.5	16960.2	14918.3
65°	3944.9	3882.4	3993.5	4688.0	5007.5	5729.8	7188.3	8063.4	9952.5	8403.7	6007.6
67.5°	2555.8	2576.7	2687.8	3486.5	4292.1	4396.3	4424.1	4354.6	4361.6	2403.0	1507.1
70°	1534.9	1569.6	1534.9	1972.4	3069.8	3153.1	2882.3	2812.8	2194.7	569.5	562.6
72.5°	909.8	861.2	770.9	847.3	1277.9	1527.9	1375.1	1368.2	861.2	333.4	333.4
75°	382.0	347.3	284.8	257.0	340.3	326.4	326.4	291.7	229.2	222.2	208.4
77.5°	76.4	76.4	55.6	62.5	83.3	97.2	118.1	118.1	138.9	138.9	132.0
80°	0.0	6.9	20.8	41.7	62.5	90.3	104.2	104.2	118.1	118.1	97.2
82.5°	0.0	6.9	20.8	41.7	55.6	83.3	104.2	104.2	118.1	125.0	104.2
85°	0.0	6.9	20.8	34.7	55.6	69.5	69.5	62.5	48.6	41.7	27.8
87.5°	0.0	0.0	6.9	13.9	6.9	13.9	13.9	13.9	13.9	13.9	13.9
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°	13390.3	13390.3	13390.3	13390.3	13390.3	13390.3	13390.3	13390.3	13390.3	13390.3	13390.3
2.5°	13452.9	13445.9	13279.2	13008.4	12945.9	12716.7	12688.9	12550.0	12626.4	12369.4	12341.6
5°	13341.7	13258.4	13057.0	12883.3	12376.3	12015.2	11730.4	11383.2	11181.8	11216.5	11084.5
7.5°	13501.5	13286.2	12932.0	12327.7	11709.6	11077.6	10737.3	10028.9	9771.9	9389.9	9334.4
10°	13334.8	13175.0	12626.4	11626.3	10772.0	9862.2	9063.5	8278.7	7681.4	7424.4	7368.9
12.5°	13320.9	13043.1	12126.3	11015.1	9778.8	8473.1	7313.3	6334.0	5743.7	5410.3	5333.9
15°	13105.6	12772.2	11563.8	10070.5	8362.0	6736.8	5472.8	4528.3	4076.8	3882.4	3937.9
17.5°	13126.4	12626.4	11001.2	9070.4	6966.0	4945.0	3736.5	3250.4	3132.3	3180.9	3180.9
20°	13105.6	12300.0	10320.6	7917.5	5333.9	3430.9	2743.4	2569.7	2646.1	2798.9	2764.2
22.5°	12994.5	12147.2	9695.5	6702.1	3924.0	2541.9	2201.6	2208.6	2326.6	2514.2	2555.8
25°	13077.8	11806.8	8903.7	5472.8	2861.4	2028.0	1909.9	1958.5	2083.6	2222.5	2250.2
27.5°	13015.3	11563.8	8077.3	4250.5	2090.5	1743.2	1736.3	1791.9	1847.4	1951.6	1951.6
30°	13084.8	11341.5	7264.7	3160.1	1722.4	1597.4	1569.6	1611.3	1666.8	1687.7	1680.7
32.5°	13341.7	11174.8	6327.1	2361.4	1521.0	1458.5	1458.5	1458.5	1451.5	1479.3	1486.3
35°	13904.3	11202.6	5500.6	1826.6	1389.0	1340.4	1319.6	1291.8	1277.9	1291.8	1298.8
37.5°	14515.5	11188.7	4646.3	1555.7	1291.8	1250.1	1201.5	1159.8	1152.9	1166.8	1146.0
40°	14786.3	11320.7	3854.6	1396.0	1201.5	1152.9	1076.5	1041.8	1048.7	1062.6	1048.7
42.5°	15154.4	11362.3	3340.6	1271.0	1118.2	1041.8	993.2	951.5	944.5	965.4	958.4
45°	15147.5	11126.2	2798.9	1201.5	1041.8	958.4	895.9	861.2	861.2	875.1	882.0
47.5°	15592.0	11091.5	2403.0	1139.0	986.2	902.9	826.5	798.7	791.8	791.8	777.9
50°	16626.8	11577.6	2097.5	1069.6	916.8	840.4	777.9	743.1	715.4	701.5	694.5
52.5°	18647.9	13091.7	1861.3	986.2	840.4	777.9	722.3	694.5	659.8	625.1	618.1
54°	20606.4	14654.4	1847.4	916.8	777.9	736.2	687.6	673.7	632.0	583.4	569.5
55°	21488.5	15564.2	1896.0	861.2	736.2	708.4	666.7	652.8	611.2	555.6	548.7
57.5°	22217.7	15918.4	1868.3	715.4	666.7	659.8	625.1	604.2	555.6	479.2	465.3
60°	17883.9	12036.0	1340.4	632.0	611.2	597.3	569.5	555.6	493.1	409.8	402.8
62.5°	11299.8	6924.4	854.3	555.6	534.8	513.9	479.2	465.3	409.8	326.4	305.6
65°	4813.0	2868.4	576.5	493.1	458.4	423.7	395.9	375.0	326.4	243.1	236.1
67.5°	1250.1	1020.9	479.2	430.6	382.0	333.4	312.5	277.8	222.2	166.7	159.7
70°	562.6	513.9	402.8	361.2	305.6	257.0	229.2	194.5	145.8	111.1	104.2
72.5°	333.4	326.4	305.6	270.9	229.2	194.5	166.7	132.0	97.2	62.5	62.5
75°	208.4	201.4	208.4	187.5	159.7	145.8	125.0	90.3	55.6	27.8	27.8
77.5°	125.0	125.0	125.0	118.1	111.1	111.1	90.3	55.6	27.8	6.9	6.9
80°	97.2	97.2	104.2	97.2	97.2	97.2	76.4	41.7	13.9	0.0	0.0
82.5°	97.2	104.2	118.1	111.1	97.2	83.3	69.5	41.7	13.9	0.0	0.0
85°	27.8	20.8	34.7	48.6	69.5	62.5	48.6	34.7	13.9	0.0	0.0
87.5°	13.9	13.9	13.9	13.9	6.9	6.9	6.9	6.9	6.9	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)