

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: P457211

Luminaire Tested: **GALN-SA8C-740-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457211
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8C-740-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46513 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

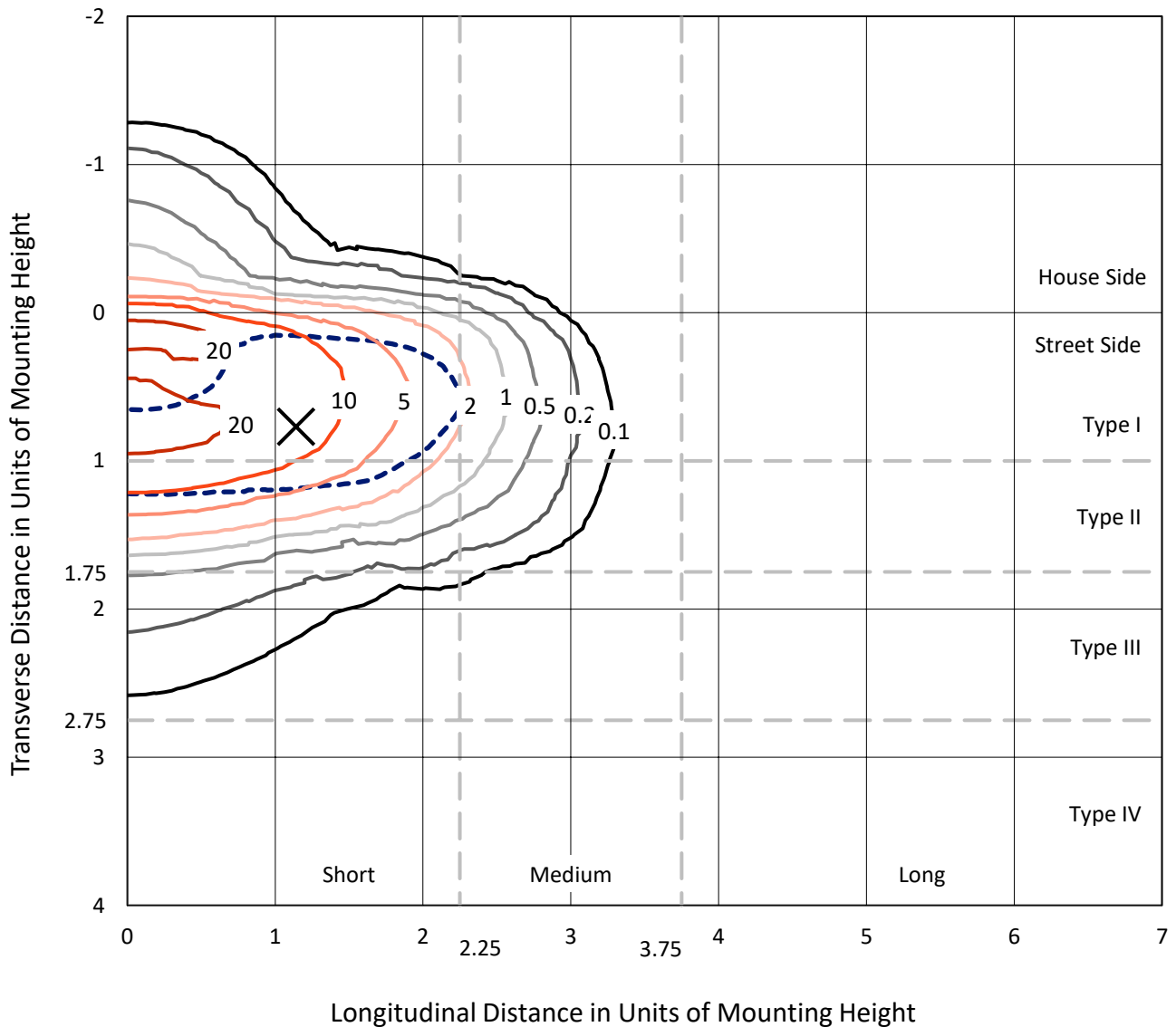
Input Watts (W): 429
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

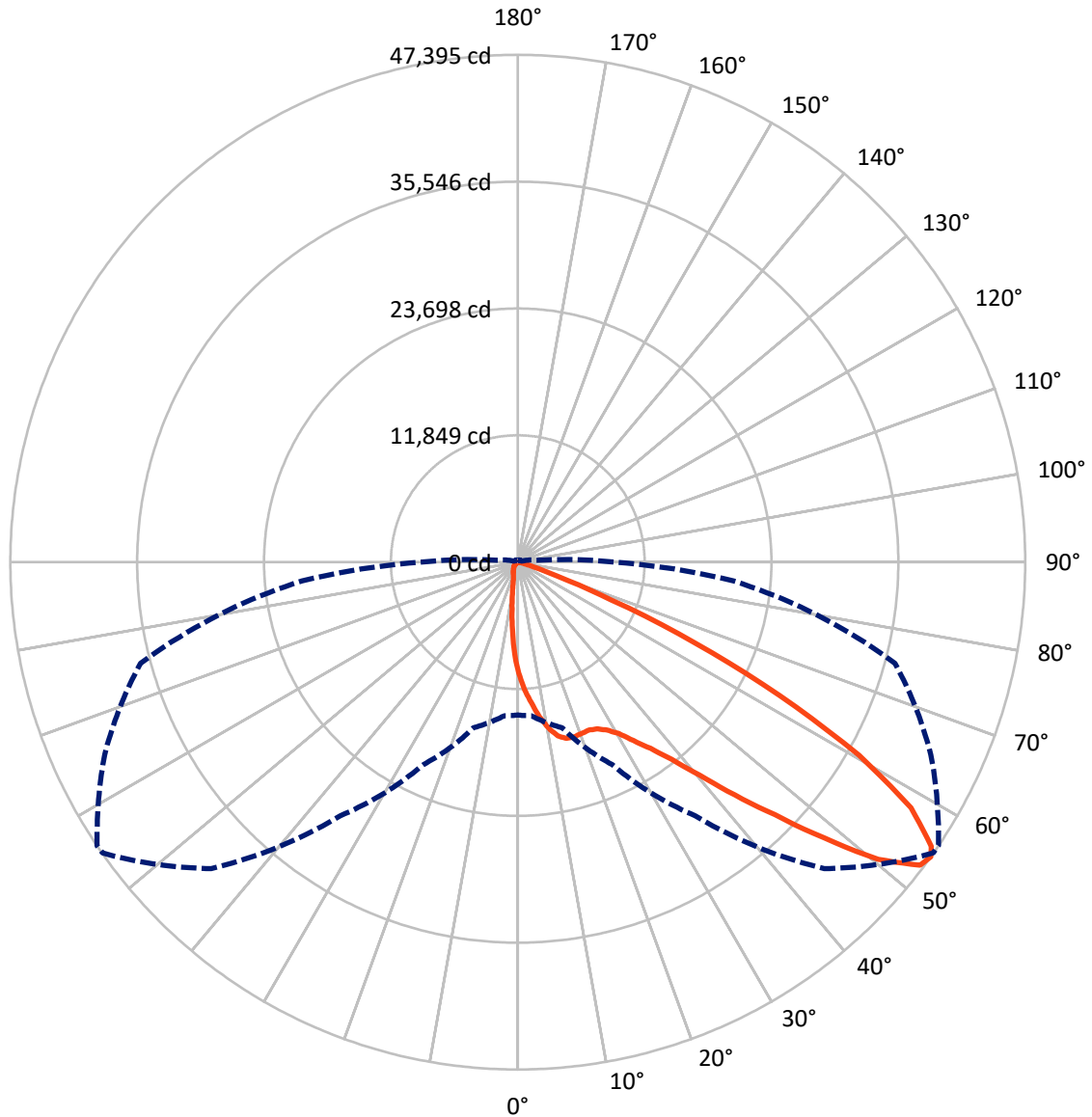
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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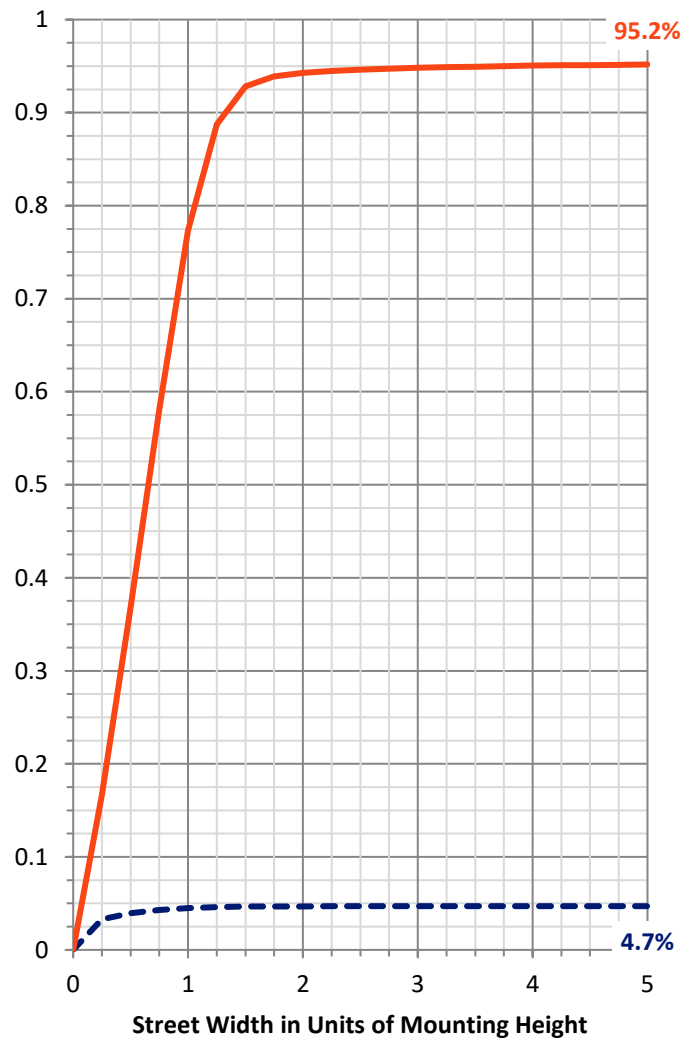
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2199.5	0.0	2199.5
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	44313.5	0.0	44313.5
	% Fixture	95.3	0.0	95.3
Total	Lumens	46513.0	0.0	46513.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	913.2	2.0
10°-20°	2468.6	5.3
20°-30°	4275.4	9.2
30°-40°	7380.0	15.9
40°-50°	12561.0	27.0
50°-60°	12430.6	26.7
60°-70°	5673.6	12.2
70°-80°	728.6	1.6
80°-90°	82.1	0.2
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°	46513.0	100.0
0°-180°	46513.0	100.0



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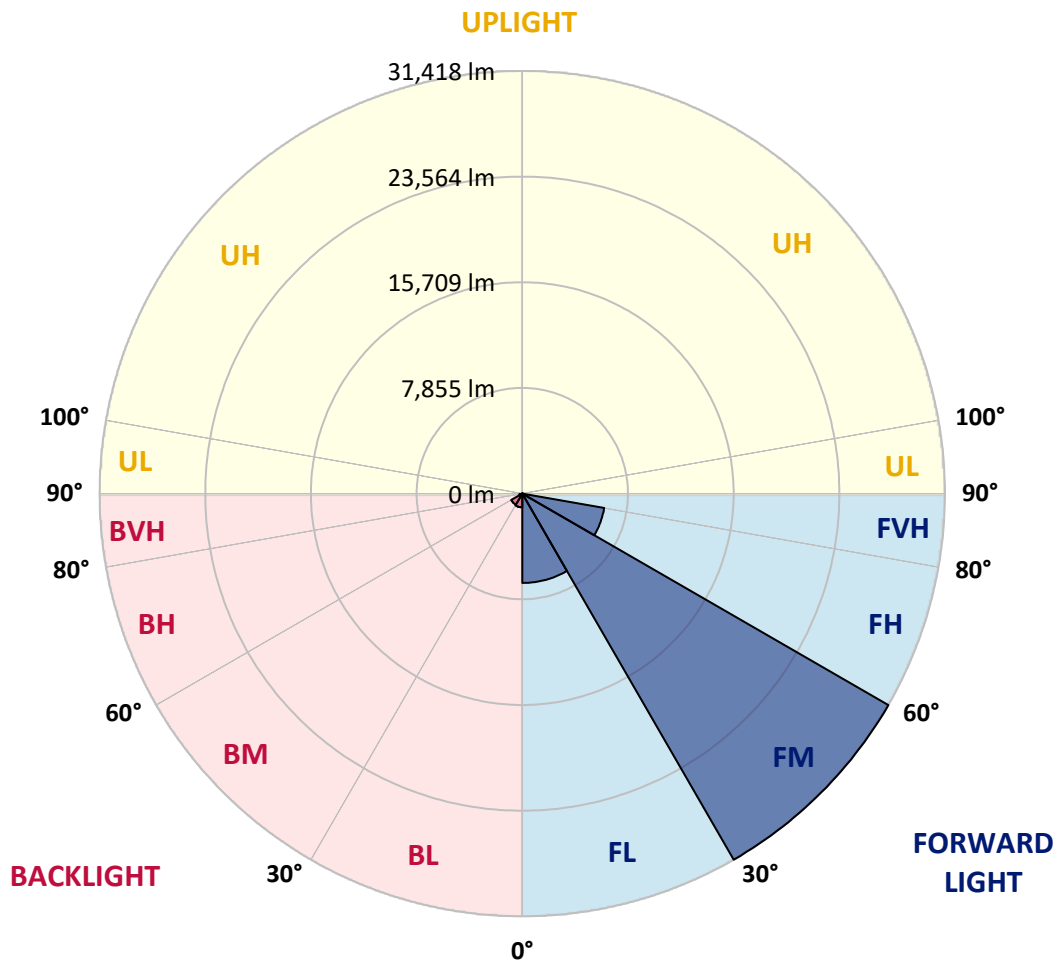
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6639.9	14.3			
FM (30°-60°)	31418.3	67.5			
FH (60°-80°)	6182.0	13.3			G3/7500
FVH (80°-90°)	73.3	0.2			G1/100
BL (0°-30°)	1017.2	2.2	B3/2500		
BM (30°-60°)	953.2	2.0	B1/1000		
BH (60°-80°)	220.2	0.5	B1/500		G1/500
BVH (80°-90°)	8.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	10333.9	10333.9	10333.9	10333.9	10333.9	10333.9	10333.9	10333.9	10333.9	10333.9	10333.9
2.5°	13133.1	13042.1	12916.5	12819.2	12590.2	12260.7	11912.3	11912.3	11576.5	11109.0	10632.0
5°	15147.7	15088.1	14965.7	14714.7	14457.4	13996.0	13296.2	13173.9	12574.5	11727.2	10836.0
7.5°	15966.8	15995.0	16001.3	15935.4	15813.0	15358.0	14664.5	14579.7	13622.6	12486.6	11102.7
10°	15182.3	15320.3	15455.3	15728.3	16114.3	16224.1	15831.8	15744.0	14802.5	13255.4	11391.4
12.5°	14014.9	14090.2	14165.5	14595.4	15370.5	16258.6	16669.7	16666.6	15869.5	14021.2	11758.6
15°	13472.0	13537.9	13544.2	13735.6	14407.1	15700.0	17027.5	17074.5	16911.4	14965.7	12154.0
17.5°	13585.0	13638.3	13594.4	13641.4	13992.9	15085.0	16986.7	17143.6	17755.5	15872.6	12511.7
20°	14322.4	14426.0	14256.5	14124.7	14231.4	14921.8	16848.6	17068.3	18351.8	16757.6	12838.1
22.5°	15646.7	15703.2	15489.8	15128.9	14940.6	15263.8	16810.9	17027.5	18860.1	17482.5	13026.4
25°	17118.5	17099.7	16864.3	16459.5	16064.1	15954.2	17058.9	17253.4	19280.7	18135.2	13082.9
27.5°	18590.3	18646.7	18251.3	17749.2	17275.4	16989.8	17614.3	17758.7	19754.5	18879.0	13151.9
30°	20300.5	20209.5	19820.4	19246.1	18703.2	18304.7	18508.7	18549.5	20407.2	19864.3	13333.9
32.5°	22525.5	22274.4	21838.2	20834.0	20444.9	19770.2	19820.4	19870.6	21201.2	20840.3	13553.6
35°	25544.4	25531.8	24678.2	23325.7	22378.0	21540.1	21320.4	21361.2	22403.1	22290.1	14040.0
37.5°	29178.3	29228.5	28255.7	26893.7	25148.9	23818.4	23366.5	23372.8	24229.5	24292.2	14780.6
40°	32137.6	32269.4	31688.8	30769.3	29046.5	26965.9	26206.5	26137.5	26796.5	26718.0	15838.1
42.5°	33411.6	33534.0	33750.6	34070.6	33122.9	31406.4	29614.5	29708.6	29909.5	29360.3	17024.3
45°	32787.1	32981.7	33832.1	35809.2	36700.4	36123.0	33985.9	33656.4	32806.0	32231.7	18216.8
47.5°	30185.6	30659.5	32081.1	35373.0	38492.3	40444.2	38919.0	38482.8	35705.6	34328.0	18976.3
50°	25908.4	25936.6	27916.8	32125.0	37563.4	43171.2	43955.7	43629.4	38407.5	35504.8	19359.1
52.5°	18781.7	19399.9	21213.7	26087.2	33540.3	42757.0	47166.0	47031.1	41194.2	36107.3	19911.4
54°	14278.5	14397.7	16010.7	20846.6	28917.8	40481.8	47363.7	47395.1	42578.1	36471.3	20237.8
55°	11705.2	11419.6	13114.2	17758.7	25764.0	38470.3	46717.3	46867.9	43199.5	36659.6	20479.4
57.5°	5548.2	5551.3	6847.4	9367.3	16136.2	29871.8	42766.4	43299.9	43268.5	36982.8	21223.2
60°	2808.6	2827.5	3113.0	4324.3	7970.8	19858.1	35360.4	36631.4	39938.9	37029.9	21467.9
62.5°	1964.5	1942.5	1895.4	2080.6	3354.7	10092.2	26325.7	27430.4	33932.6	35238.0	20689.7
65°	1682.0	1635.0	1503.2	1474.9	1694.6	4019.9	16396.7	18198.0	25908.4	30512.0	18474.2
67.5°	1437.3	1418.4	1299.2	1227.0	1198.8	1751.1	8460.4	9408.1	17708.4	21932.4	13992.9
70°	1220.7	1211.3	1139.1	1048.1	969.7	1048.1	3138.1	3888.1	9869.4	11808.8	6602.6
72.5°	991.6	1001.1	1013.6	897.5	815.9	743.7	1340.0	1559.6	4129.8	4220.8	2309.7
75°	869.3	859.8	859.8	781.4	681.0	552.3	737.5	793.9	1264.7	1173.7	536.6
77.5°	611.9	590.0	690.4	643.3	568.0	392.3	420.5	445.6	524.1	448.8	251.1
80°	423.6	423.6	442.5	577.4	511.5	285.6	257.3	276.2	310.7	266.7	144.4
82.5°	238.5	244.8	288.7	307.5	298.1	191.4	169.5	172.6	207.1	182.0	91.0
85°	28.2	47.1	166.3	163.2	122.4	84.7	94.1	97.3	128.7	113.0	53.3
87.5°	3.1	6.3	34.5	43.9	31.4	34.5	34.5	34.5	43.9	50.2	37.7
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°	10333.9	10333.9	10333.9	10333.9	10333.9	10333.9	10333.9	10333.9	10333.9	10333.9	10333.9
2.5°	10374.6	10136.1	9568.1	8909.1	8488.6	7804.5	7227.1	6809.7	6706.2	6505.3	6565.0
5°	10362.1	9866.3	8708.3	7484.4	6179.0	5206.2	4481.2	3910.1	3659.1	3492.7	3376.6
7.5°	10368.4	9593.3	7735.5	5786.7	4227.1	3273.1	2601.5	2253.2	2021.0	1923.7	1936.2
10°	10387.2	9285.7	6605.8	4286.7	2852.6	2115.1	1704.0	1537.7	1459.2	1446.7	1443.5
12.5°	10431.1	8949.9	5526.2	3182.1	1995.8	1537.7	1380.8	1324.3	1299.2	1299.2	1289.8
15°	10478.2	8579.6	4628.7	2366.1	1537.7	1321.2	1249.0	1220.7	1205.0	1205.0	1201.9
17.5°	10478.2	8152.9	3790.9	1835.8	1324.3	1214.5	1158.0	1120.3	1107.8	1107.8	1104.6
20°	10412.3	7657.0	3047.1	1478.1	1201.9	1114.0	1057.5	1016.8	1001.1	994.8	991.6
22.5°	10183.2	6994.9	2425.8	1270.9	1101.5	1026.2	954.0	906.9	894.4	888.1	891.2
25°	9775.3	6248.0	1920.5	1117.2	1010.5	919.5	856.7	822.2	809.6	809.6	812.8
27.5°	9354.8	5466.6	1522.0	1001.1	900.6	819.1	768.8	746.9	743.7	753.2	756.3
30°	8965.6	4682.1	1233.3	906.9	803.4	734.3	699.8	693.5	693.5	696.7	699.8
32.5°	8532.6	3994.8	1032.4	825.3	724.9	665.3	646.5	646.5	652.7	652.7	659.0
35°	8259.5	3404.9	906.9	746.9	665.3	615.1	602.5	605.7	615.1	627.6	633.9
37.5°	8112.1	2934.1	825.3	684.1	608.8	574.3	561.7	568.0	590.0	611.9	615.1
40°	8124.6	2579.5	759.4	630.8	564.9	527.2	517.8	536.6	558.6	580.6	583.7
42.5°	8262.7	2315.9	696.7	568.0	527.2	473.9	470.7	489.5	499.0	520.9	524.1
45°	8425.9	2124.5	630.8	502.1	458.2	411.1	414.2	429.9	442.5	477.0	483.3
47.5°	8476.1	1992.7	555.4	426.8	376.6	360.9	364.0	373.4	398.5	429.9	433.1
50°	8532.6	1911.1	483.3	360.9	320.1	317.0	320.1	326.4	342.1	354.6	351.5
52.5°	8774.2	1908.0	423.6	313.8	273.0	279.3	282.4	279.3	266.7	247.9	241.6
54°	9000.1	1917.4	395.4	291.8	251.1	260.5	257.3	241.6	210.3	191.4	182.0
55°	9182.2	1926.8	379.7	276.2	238.5	241.6	244.8	213.4	172.6	153.8	147.5
57.5°	9539.9	1904.8	342.1	241.6	210.3	197.7	194.6	141.2	94.1	81.6	75.3
60°	9361.0	1719.7	310.7	207.1	178.9	160.0	131.8	78.5	47.1	34.5	34.5
62.5°	8658.1	1459.2	276.2	169.5	147.5	122.4	69.0	43.9	22.0	12.6	9.4
65°	7744.9	1227.0	247.9	134.9	116.1	78.5	37.7	28.2	9.4	0.0	0.0
67.5°	5758.5	910.1	210.3	106.7	87.9	50.2	25.1	15.7	3.1	0.0	0.0
70°	2667.4	555.4	178.9	81.6	62.8	37.7	18.8	9.4	0.0	0.0	0.0
72.5°	765.7	348.3	147.5	59.6	43.9	31.4	15.7	6.3	3.1	0.0	0.0
75°	266.7	279.3	109.8	43.9	34.5	22.0	12.6	6.3	3.1	0.0	0.0
77.5°	160.0	225.9	69.0	37.7	28.2	18.8	12.6	6.3	3.1	3.1	0.0
80°	91.0	150.6	43.9	31.4	25.1	15.7	9.4	6.3	3.1	3.1	0.0
82.5°	50.2	72.2	34.5	28.2	22.0	15.7	9.4	6.3	3.1	3.1	3.1
85°	40.8	37.7	28.2	25.1	18.8	12.6	9.4	3.1	0.0	0.0	0.0
87.5°	31.4	25.1	25.1	25.1	18.8	12.6	9.4	3.1	0.0	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)