

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: P300745

Luminaire Tested: **GLNA-AF-05-LED-E1-AFL-7030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300745
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-05-LED-E1-AFL-7030-600-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Automotive Frontline WITH HOUSESIDE SHIELD OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14098.3 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 162
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: 25 FT

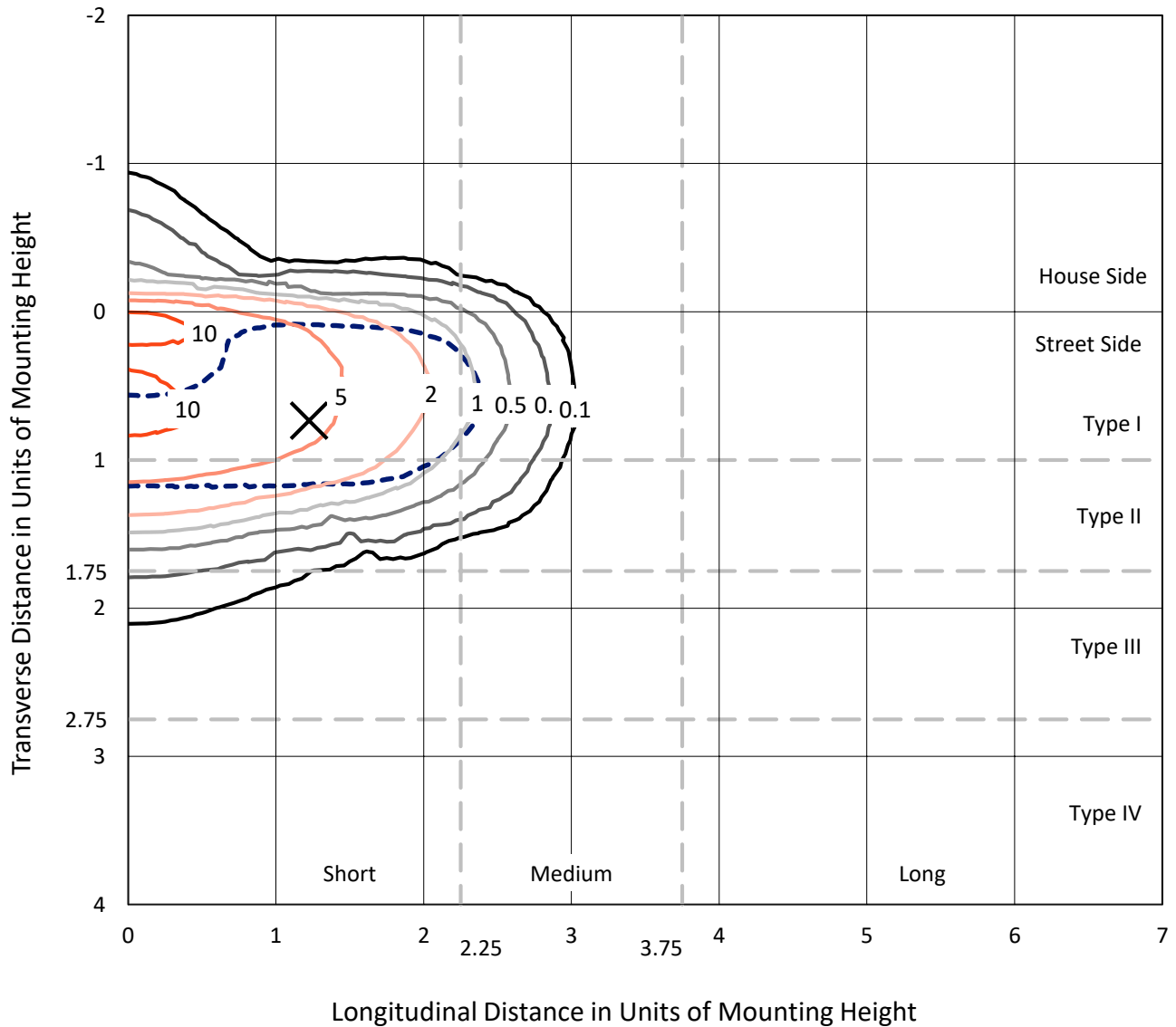


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

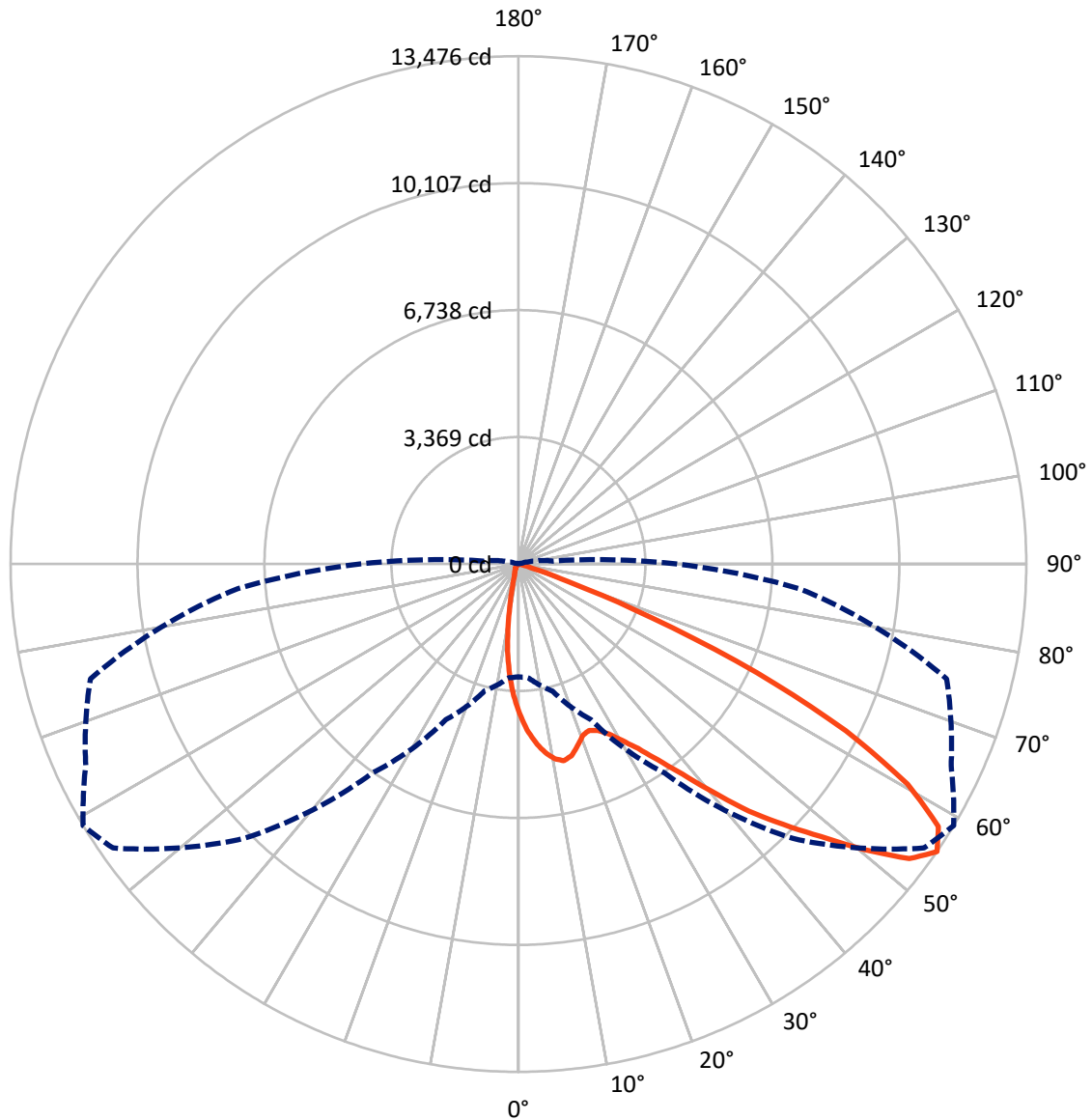


Based on 20 foot mounting height. Maximum calculated value = 12.3 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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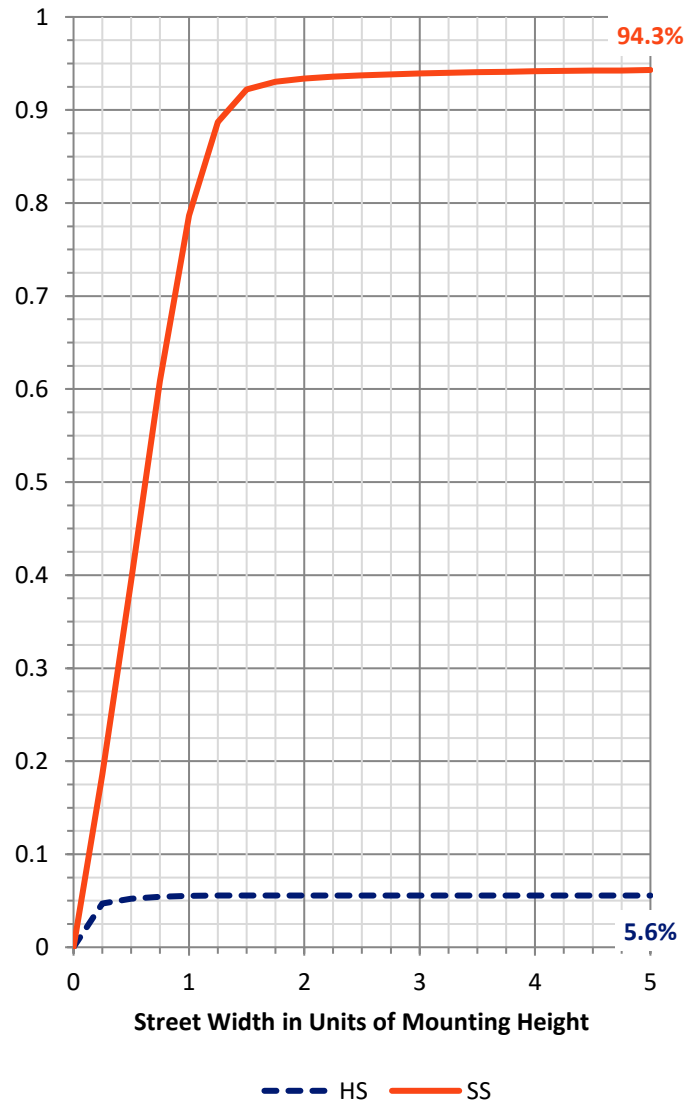
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	787.5	0.0	787.5
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	13310.9	0.0	13310.9
	% Fixture	94.4	0.0	94.4
Total	Lumens	14098.3	0.0	14098.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.4	2.4
10°-20°	795.9	5.6
20°-30°	1354.3	9.6
30°-40°	2329.1	16.5
40°-50°	3595.9	25.5
50°-60°	3615.0	25.6
60°-70°	1853.8	13.1
70°-80°	200.9	1.4
80°-90°	21.0	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°	14098.3	100.0
0°-180°	14098.3	100.0

Coefficient of Utilization



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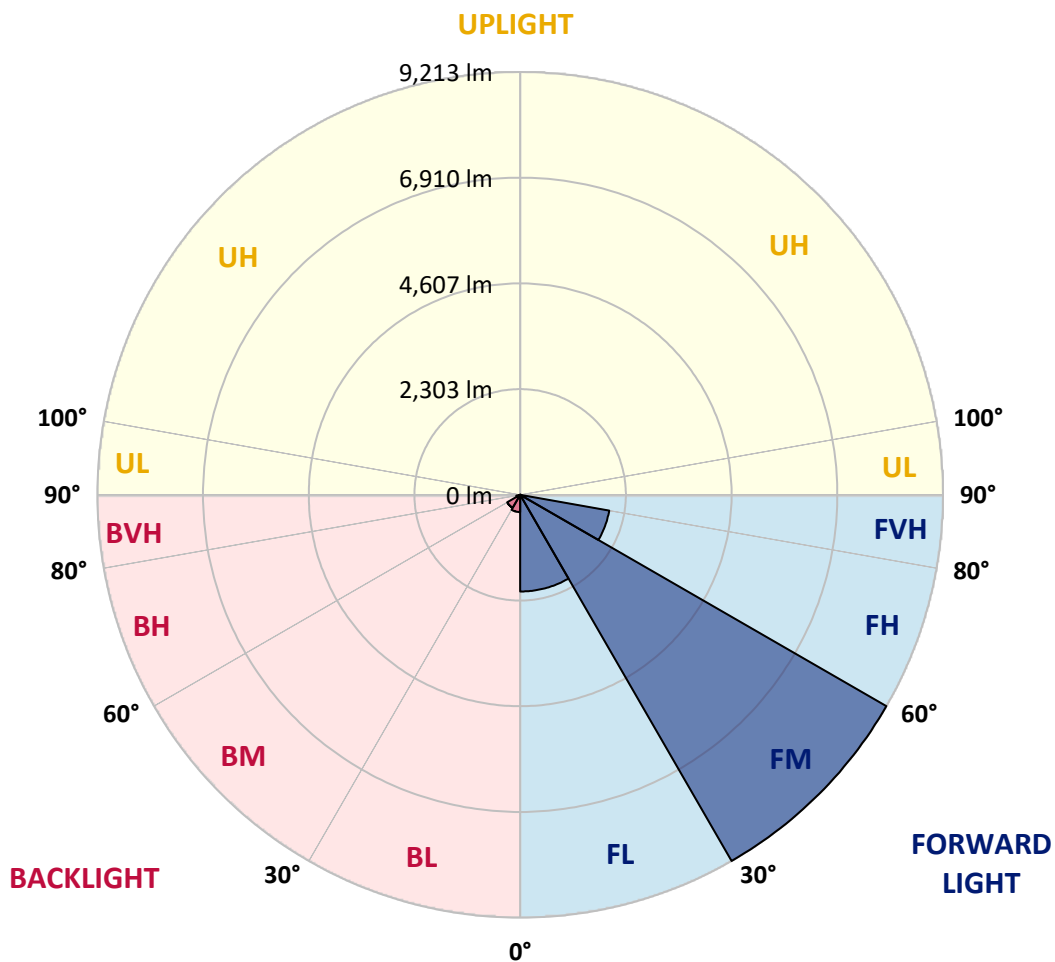
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2106.8	14.9			
FM (30°-60°)	9213.2	65.3			
FH (60°-80°)	1970.3	14.0			G2/5000
FVH (80°-90°)	20.6	0.1			G1/100
BL (0°-30°)	375.9	2.7	B1/500		
BM (30°-60°)	326.8	2.3	B1/1000		
BH (60°-80°)	84.4	0.6	B0/110		G0/110
BVH (80°-90°)	0.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	3968.6	3968.6	3968.6	3968.6	3968.6	3968.6	3968.6	3968.6	3968.6	3968.6	3968.6
2.5°	4695.8	4645.9	4630.9	4620.9	4575.2	4517.7	4439.5	4402.9	4328.1	4207.4	4059.3
5°	5125.9	5116.8	5083.5	5065.2	5016.1	4934.6	4809.8	4749.9	4630.9	4427.9	4162.5
7.5°	4937.9	4995.3	5041.1	5117.6	5214.1	5210.8	5106.0	5043.6	4910.5	4642.5	4277.3
10°	4211.6	4258.2	4333.0	4506.9	4861.4	5174.2	5297.3	5252.4	5145.9	4839.7	4388.0
12.5°	4069.3	4064.3	4077.6	4128.4	4313.9	4759.9	5264.9	5355.6	5333.9	5020.3	4492.8
15°	4145.0	4139.2	4137.5	4155.0	4199.9	4388.0	5021.1	5281.5	5448.8	5187.5	4581.8
17.5°	4357.2	4332.2	4318.9	4304.8	4291.4	4338.0	4728.2	5074.4	5466.2	5333.9	4655.9
20°	4720.8	4679.2	4630.1	4550.2	4475.3	4452.0	4605.1	4861.4	5403.8	5445.4	4704.1
22.5°	5177.5	5124.3	5039.4	4893.8	4741.6	4653.4	4665.8	4794.0	5310.6	5566.9	4726.6
25°	5690.9	5622.6	5509.5	5307.3	5083.5	4927.1	4845.6	4890.5	5268.2	5709.2	4752.4
27.5°	6240.8	6165.1	6017.0	5741.6	5487.9	5276.5	5110.1	5104.3	5340.6	5895.5	4794.0
30°	6785.8	6774.1	6581.1	6289.9	5953.8	5696.7	5457.1	5426.3	5542.8	6153.5	4876.3
32.5°	7512.9	7425.6	7189.3	6889.8	6502.1	6193.4	5909.7	5838.1	5853.1	6453.8	5003.6
35°	8429.8	8334.1	8001.3	7587.8	7154.4	6789.9	6476.3	6378.9	6342.3	6945.5	5218.3
37.5°	9022.2	9020.5	8811.7	8390.7	7925.6	7523.8	7182.6	7068.7	6994.6	7539.6	5551.1
40°	9038.0	9077.1	9104.6	9100.4	8769.3	8399.0	8096.2	7955.6	7783.3	8333.3	5981.2
42.5°	8552.9	8653.6	8895.7	9306.7	9503.1	9355.8	9100.4	8962.3	8706.0	9182.8	6505.4
45°	7897.3	7967.2	8390.7	9147.8	9900.8	10304.3	10109.6	9862.5	9524.7	10068.8	6975.5
47.5°	7603.6	7616.1	7889.8	8721.0	9930.7	11081.4	11199.5	10797.7	10268.5	10782.7	7343.2
50°	6725.9	6748.3	7126.1	7981.4	9579.6	11448.3	12294.4	11913.4	11079.7	11332.6	7477.2
52.5°	5069.4	5101.0	5580.2	6765.8	8614.5	11291.9	13078.2	12985.8	11968.3	11601.4	7484.7
55°	2991.0	3032.6	3490.2	4554.4	6775.8	10296.8	13136.4	13475.9	12669.7	11760.3	7473.0
57.5°	1396.9	1426.0	1688.1	2346.2	4214.1	8137.8	12259.5	13139.7	13056.5	11844.3	7555.4
60°	742.1	750.5	813.7	1015.9	1904.4	5160.1	10548.1	11865.1	12703.8	11960.8	7656.0
62.5°	567.4	569.9	566.6	590.7	800.4	2290.5	7973.0	9754.3	11283.6	11873.4	7544.6
65°	491.7	495.9	472.6	466.8	513.3	817.0	4736.6	6953.0	8866.6	10694.5	6784.9
67.5°	441.0	442.6	414.3	390.2	398.5	441.8	1868.7	3806.4	5868.9	7839.1	4917.9
70°	406.0	404.4	373.6	335.3	324.5	302.0	594.0	1395.3	2804.7	3975.3	2287.2
72.5°	359.4	360.3	345.3	295.4	269.6	211.3	275.4	406.8	837.0	1083.3	535.8
75°	318.7	314.5	296.2	264.6	222.1	138.9	136.4	181.4	257.9	256.3	115.6
77.5°	230.5	226.3	232.1	217.2	170.6	89.9	68.2	87.4	104.8	101.5	32.4
80°	168.9	166.4	149.8	180.5	150.6	61.6	42.4	46.6	54.1	45.8	10.0
82.5°	115.6	114.8	105.7	99.8	85.7	37.4	26.6	29.1	34.9	25.8	5.0
85°	18.3	20.8	76.5	60.7	50.8	16.6	18.3	20.0	23.3	14.1	1.7
87.5°	0.0	0.0	35.8	31.6	10.0	6.7	10.8	11.6	11.6	7.5	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3968.6	3968.6	3968.6	3968.6	3968.6	3968.6	3968.6	3968.6	3968.6	3968.6	3968.6
2.5°	3983.6	3900.4	3746.5	3587.6	3440.3	3264.8	3144.1	3053.4	2948.6	2920.3	2981.9
5°	4011.1	3853.8	3522.7	3162.4	2823.8	2448.6	2161.5	1934.4	1728.9	1659.0	1722.2
7.5°	4054.3	3820.5	3280.6	2687.4	2098.3	1512.6	1111.5	847.8	679.7	629.8	656.4
10°	4097.6	3772.3	3000.2	2124.9	1319.5	736.3	479.2	382.7	346.9	339.5	343.6
12.5°	4133.4	3707.4	2658.2	1510.9	705.5	394.4	313.7	297.9	292.9	292.9	294.5
15°	4155.0	3609.2	2253.1	961.0	406.0	297.9	273.7	268.7	268.7	269.6	271.2
17.5°	4152.5	3484.4	1809.6	581.6	303.7	263.7	249.6	245.4	244.6	246.3	247.1
20°	4121.7	3321.3	1364.5	383.6	264.6	240.4	226.3	218.8	218.0	219.6	221.3
22.5°	4063.5	3120.0	975.9	295.4	238.8	218.0	200.5	193.9	193.9	195.5	197.2
25°	3992.8	2873.7	667.3	250.4	215.5	193.9	177.2	171.4	173.1	177.2	178.0
27.5°	3904.6	2596.7	453.4	214.7	187.2	169.7	157.2	153.1	157.2	163.1	164.7
30°	3828.9	2308.0	323.6	185.5	158.9	146.4	138.9	138.9	144.8	155.6	158.1
32.5°	3770.6	2028.4	249.6	163.9	138.1	127.3	123.1	127.3	136.4	147.3	149.8
35°	3763.1	1797.9	211.3	146.4	123.1	112.3	110.7	118.1	127.3	135.6	137.3
37.5°	3820.5	1585.0	190.5	132.3	109.8	99.8	98.2	107.3	116.5	126.5	129.0
40°	3929.5	1417.7	175.6	119.0	99.0	88.2	84.9	91.5	104.0	117.3	120.6
42.5°	4071.0	1279.6	158.9	105.7	88.2	73.2	69.1	76.5	89.9	104.0	108.2
45°	4205.7	1160.6	140.6	90.7	74.0	56.6	54.9	64.9	71.6	85.7	89.0
47.5°	4279.8	1055.8	124.8	74.0	57.4	45.8	45.8	48.3	54.9	71.6	74.9
50°	4254.8	971.8	108.2	54.9	39.9	34.9	34.9	34.1	44.1	57.4	59.9
52.5°	4204.9	923.5	93.2	42.4	27.5	25.0	22.5	25.0	30.8	36.6	37.4
55°	4197.4	915.2	78.2	34.1	19.1	16.6	12.5	12.5	12.5	11.6	10.0
57.5°	4255.7	928.5	65.7	27.5	14.1	10.8	6.7	0.0	0.0	0.0	0.0
60°	4315.6	942.7	56.6	19.1	10.0	5.8	0.8	0.0	0.0	0.0	0.0
62.5°	4215.7	911.0	47.4	11.6	7.5	2.5	0.0	0.0	0.0	0.0	0.0
65°	3703.2	775.4	37.4	8.3	5.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	2634.1	519.2	25.0	5.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0
70°	1202.2	217.2	15.8	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	257.1	67.4	10.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	52.4	49.1	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	16.6	77.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	10.0	55.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.7	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)