

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: P300631

Luminaire Tested: **GLNA-AF-06-LED-E1-AFL-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300631
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-06-LED-E1-AFL-7030-HSS
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Automotive Frontline WITH HOUSESIDE SHIELD OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25610.3 lumens
Efficiency: N/A
Efficacy: 76.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 333
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

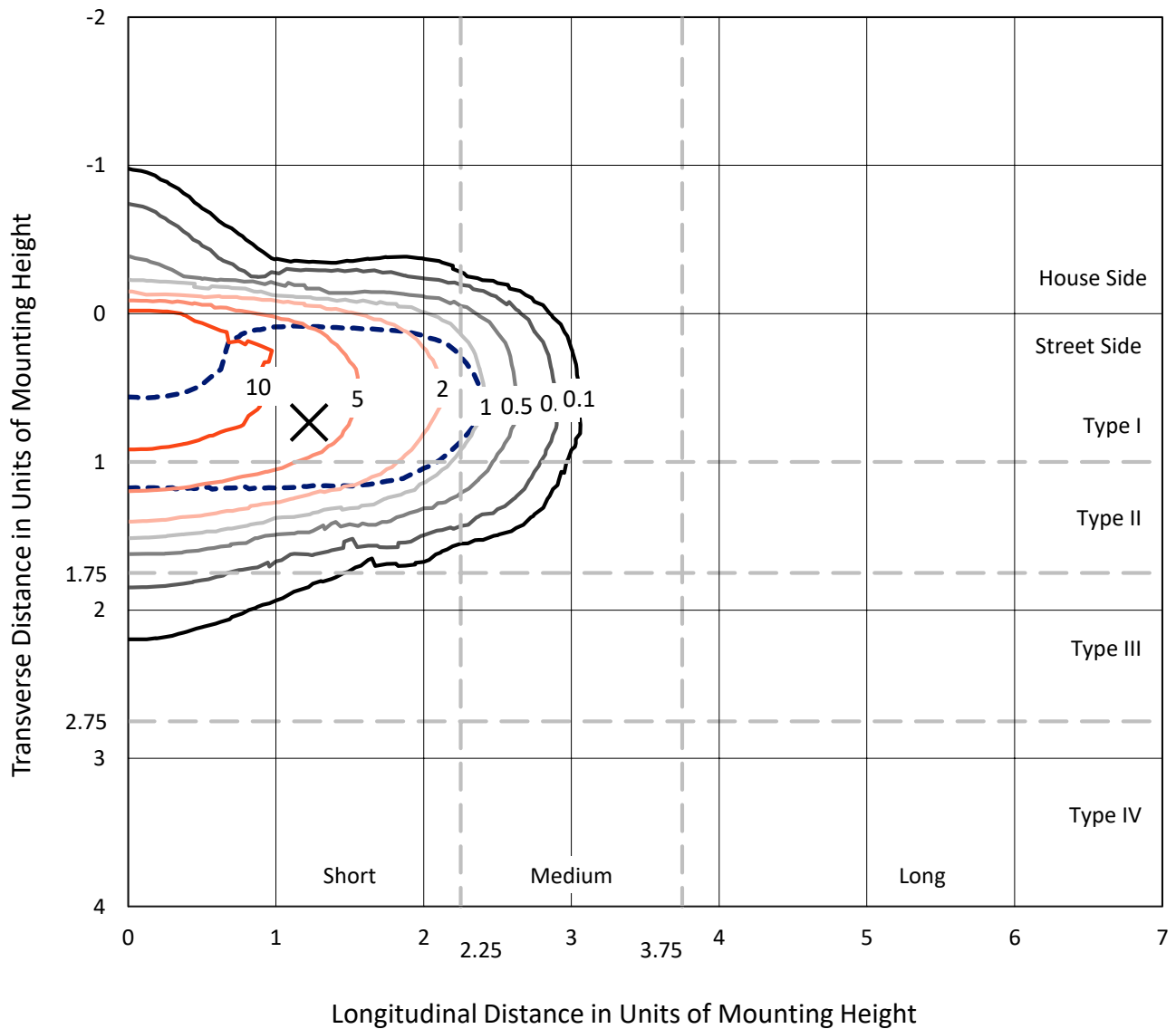


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Iso-Footcandle Lines of Horizontal Illumination

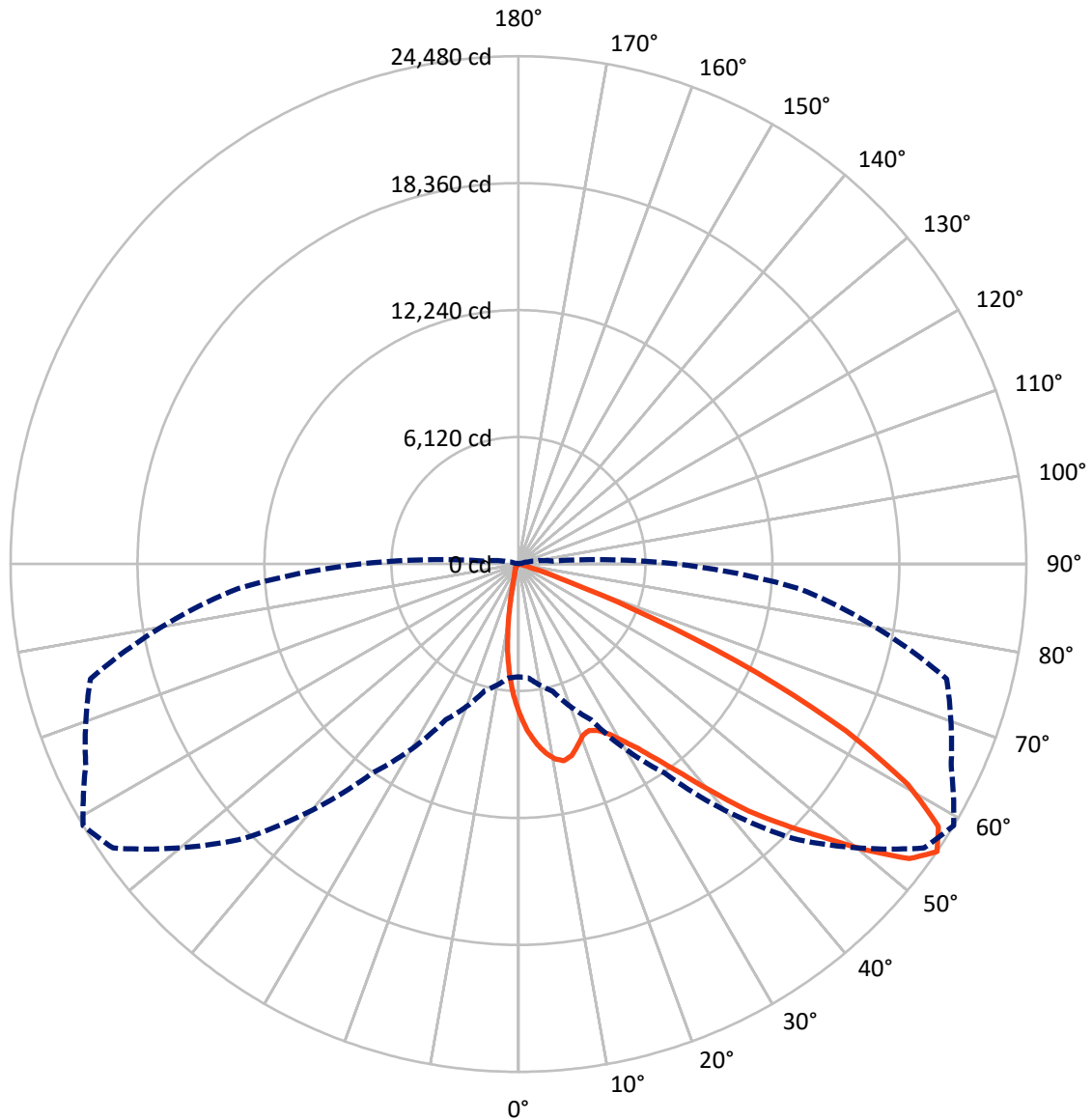
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 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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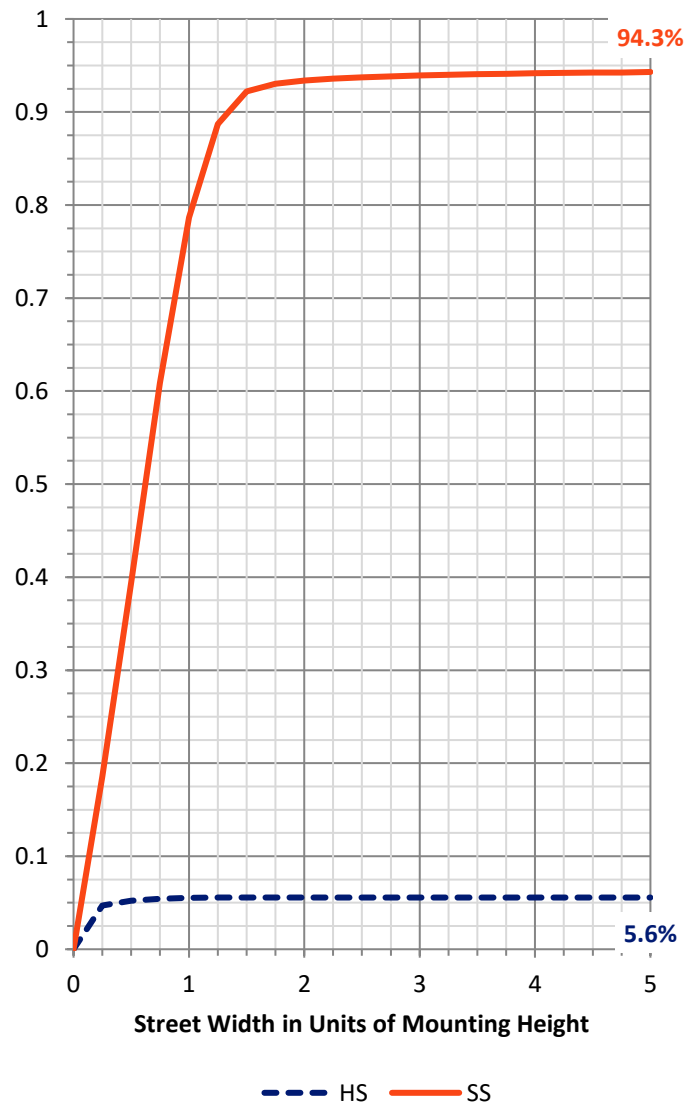
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1430.5	0.0	1430.5
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	24179.8	0.0	24179.8
	% Fixture	94.4	0.0	94.4
Total	Lumens	25610.3	0.0	25610.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	603.8	2.4
10°-20°	1445.8	5.6
20°-30°	2460.2	9.6
30°-40°	4230.9	16.5
40°-50°	6532.1	25.5
50°-60°	6566.9	25.6
60°-70°	3367.5	13.1
70°-80°	364.9	1.4
80°-90°	38.1	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°	25610.3	100.0
0°-180°	25610.3	100.0

Coefficient of Utilization



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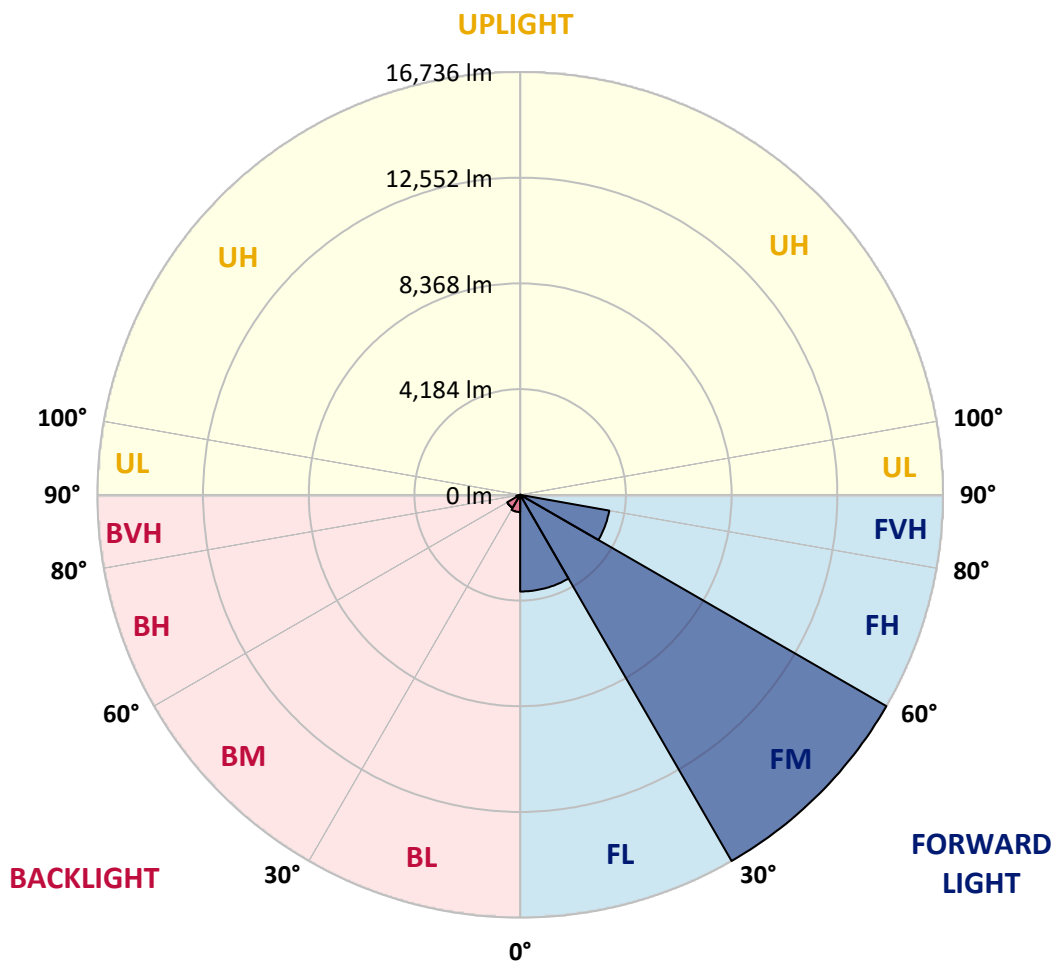
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3827.0	14.9			
FM	(30°-60°)	16736.2	65.3			
FH	(60°-80°)	3579.2	14.0			G2/5000
FVH	(80°-90°)	37.4	0.1			G1/100
BL	(0°-30°)	682.8	2.7	B2/1000		
BM	(30°-60°)	593.7	2.3	B1/1000		
BH	(60°-80°)	153.3	0.6	B1/500		G1/500
BVH	(80°-90°)	0.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	7209.2	7209.2	7209.2	7209.2	7209.2	7209.2	7209.2	7209.2	7209.2	7209.2	7209.2
2.5°	8530.1	8439.5	8412.3	8394.1	8311.0	8206.7	8064.6	7998.1	7862.1	7643.0	7374.0
5°	9311.5	9294.9	9234.4	9201.2	9112.0	8963.9	8737.2	8628.4	8412.3	8043.5	7561.4
7.5°	8970.0	9074.2	9157.4	9296.4	9471.7	9465.7	9275.3	9161.9	8920.1	8433.4	7769.9
10°	7650.5	7735.2	7871.2	8187.1	8830.9	9399.2	9622.9	9541.3	9347.8	8791.6	7970.9
12.5°	7392.1	7383.0	7407.2	7499.4	7836.4	8646.5	9563.9	9728.7	9689.4	9119.6	8161.4
15°	7529.6	7519.0	7516.0	7547.8	7629.4	7970.9	9121.1	9594.2	9897.9	9423.4	8323.1
17.5°	7915.0	7869.7	7845.5	7819.8	7795.6	7880.3	8589.1	9217.8	9929.7	9689.4	8457.6
20°	8575.5	8499.9	8410.8	8265.7	8129.6	8087.3	8365.4	8830.9	9816.3	9891.9	8545.3
22.5°	9405.2	9308.5	9154.3	8889.9	8613.3	8453.1	8475.7	8708.5	9647.0	10112.5	8586.1
25°	10337.7	10213.8	10008.3	9641.0	9234.4	8950.3	8802.2	8883.8	9570.0	10371.0	8632.9
27.5°	11336.8	11199.2	10930.2	10429.9	9969.0	9585.1	9282.8	9272.2	9701.5	10709.5	8708.5
30°	12326.7	12305.5	11954.9	11425.9	10815.3	10348.3	9913.0	9857.1	10068.7	11178.1	8858.1
32.5°	13647.6	13488.9	13059.7	12515.6	11811.3	11250.6	10735.2	10605.3	10632.5	11723.7	9089.4
35°	15313.2	15139.4	14534.8	13783.7	12996.2	12334.3	11764.5	11587.6	11521.1	12616.9	9479.3
37.5°	16389.3	16386.2	16006.9	15242.1	14397.3	13667.3	13047.6	12840.6	12706.1	13696.0	10083.8
40°	16418.0	16489.0	16538.9	16531.3	15929.8	15257.2	14707.1	14451.7	14138.8	15137.8	10865.2
42.5°	15536.8	15719.7	16159.5	16906.1	17262.8	16995.3	16531.3	16280.4	15814.9	16680.9	11817.4
45°	14345.9	14472.8	15242.1	16617.5	17985.3	18718.3	18364.6	17915.7	17302.1	18290.5	12671.3
47.5°	13812.4	13835.0	14332.3	15842.1	18039.7	20129.9	20344.5	19614.5	18653.3	19587.3	13339.3
50°	12217.9	12258.7	12944.8	14498.5	17401.9	20796.4	22333.5	21641.2	20126.9	20586.3	13582.6
52.5°	9208.8	9266.2	10136.7	12290.4	15648.7	20512.3	23757.2	23589.4	21741.0	21074.5	13596.2
55°	5433.4	5508.9	6340.2	8273.2	12308.6	18704.7	23863.0	24479.6	23015.1	21363.2	13575.1
57.5°	2537.6	2590.5	3066.6	4262.1	7655.1	14782.7	22270.0	23869.0	23717.9	21515.8	13724.7
60°	1348.1	1363.3	1478.1	1845.4	3459.5	9373.5	19161.1	21553.6	23077.0	21727.4	13907.6
62.5°	1030.8	1035.3	1029.2	1073.1	1453.9	4160.8	14483.4	17719.3	20497.1	21568.7	13705.1
65°	893.2	900.8	858.5	847.9	932.5	1484.2	8604.2	12630.5	16106.6	19427.1	12325.2
67.5°	801.0	804.0	752.7	708.8	723.9	802.5	3394.5	6914.5	10661.2	14240.1	8933.7
70°	737.5	734.5	678.6	609.1	589.4	548.6	1079.1	2534.6	5094.8	7221.3	4154.7
72.5°	652.9	654.4	627.2	536.5	489.7	383.9	500.3	739.1	1520.4	1967.8	973.3
75°	578.9	571.3	538.0	480.6	403.5	252.4	247.9	329.5	468.5	465.5	210.1
77.5°	418.6	411.1	421.7	394.5	309.8	163.2	123.9	158.7	190.4	184.4	58.9
80°	306.8	302.3	272.0	328.0	273.6	111.8	77.1	84.6	98.2	83.1	18.1
82.5°	210.1	208.6	191.9	181.4	155.7	68.0	48.4	52.9	63.5	46.9	9.1
85°	33.3	37.8	139.0	110.3	92.2	30.2	33.3	36.3	42.3	25.7	3.0
87.5°	0.0	0.0	65.0	57.4	18.1	12.1	19.6	21.2	21.2	13.6	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°	7209.2	7209.2	7209.2	7209.2	7209.2	7209.2	7209.2	7209.2	7209.2	7209.2	7209.2
2.5°	7236.4	7085.3	6805.7	6517.0	6249.5	5930.6	5711.5	5546.7	5356.3	5304.9	5416.7
5°	7286.3	7000.6	6399.1	5744.7	5129.6	4447.9	3926.5	3513.9	3140.6	3013.7	3128.5
7.5°	7364.9	6940.2	5959.3	4881.7	3811.7	2747.7	2019.2	1540.1	1234.8	1144.1	1192.5
10°	7443.5	6852.5	5450.0	3860.0	2397.0	1337.6	870.5	695.2	630.2	616.6	624.2
12.5°	7508.5	6734.6	4828.8	2744.6	1281.6	716.4	569.8	541.1	532.0	532.0	535.0
15°	7547.8	6556.3	4092.8	1745.6	737.5	541.1	497.2	488.2	488.2	489.7	492.7
17.5°	7543.2	6329.6	3287.2	1056.4	551.6	479.1	453.4	445.9	444.3	447.4	448.9
20°	7487.3	6033.4	2478.6	696.7	480.6	436.8	411.1	397.5	396.0	399.0	402.0
22.5°	7381.5	5667.6	1772.8	536.5	433.8	396.0	364.2	352.1	352.1	355.2	358.2
25°	7253.0	5220.3	1212.1	454.9	391.4	352.1	321.9	311.3	314.4	321.9	323.4
27.5°	7092.8	4717.0	823.7	389.9	340.1	308.3	285.6	278.1	285.6	296.2	299.3
30°	6955.3	4192.5	587.9	337.0	288.7	266.0	252.4	252.4	263.0	282.6	287.2
32.5°	6849.5	3684.7	453.4	297.7	250.9	231.2	223.7	231.2	247.9	267.5	272.0
35°	6835.9	3266.1	383.9	266.0	223.7	204.0	201.0	214.6	231.2	246.4	249.4
37.5°	6940.2	2879.2	346.1	240.3	199.5	181.4	178.3	195.0	211.6	229.7	234.3
40°	7138.2	2575.4	318.9	216.1	179.9	160.2	154.2	166.3	188.9	213.1	219.1
42.5°	7395.1	2324.5	288.7	191.9	160.2	133.0	125.4	139.0	163.2	188.9	196.5
45°	7640.0	2108.4	255.4	164.7	134.5	102.8	99.8	117.9	130.0	155.7	161.7
47.5°	7774.5	1917.9	226.7	134.5	104.3	83.1	83.1	87.7	99.8	130.0	136.0
50°	7729.1	1765.3	196.5	99.8	72.5	63.5	63.5	62.0	80.1	104.3	108.8
52.5°	7638.4	1677.6	169.3	77.1	49.9	45.3	40.8	45.3	55.9	66.5	68.0
55°	7624.8	1662.5	142.1	62.0	34.8	30.2	22.7	22.7	22.7	21.2	18.1
57.5°	7730.6	1686.7	119.4	49.9	25.7	19.6	12.1	0.0	0.0	0.0	0.0
60°	7839.5	1712.4	102.8	34.8	18.1	10.6	1.5	0.0	0.0	0.0	0.0
62.5°	7658.1	1654.9	86.1	21.2	13.6	4.5	0.0	0.0	0.0	0.0	0.0
65°	6727.1	1408.6	68.0	15.1	9.1	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	4785.0	943.1	45.3	9.1	1.5	0.0	0.0	0.0	0.0	0.0	0.0
70°	2183.9	394.5	28.7	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	467.0	122.4	19.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	95.2	89.2	7.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	30.2	140.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	18.1	101.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	3.0	15.1	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)