

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: P300775

Luminaire Tested: **GLNA-AF-10-LED-E1-AFL-7030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300775
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-10-LED-E1-AFL-7030-600-HSS
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(10) 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: 27920 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 323
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

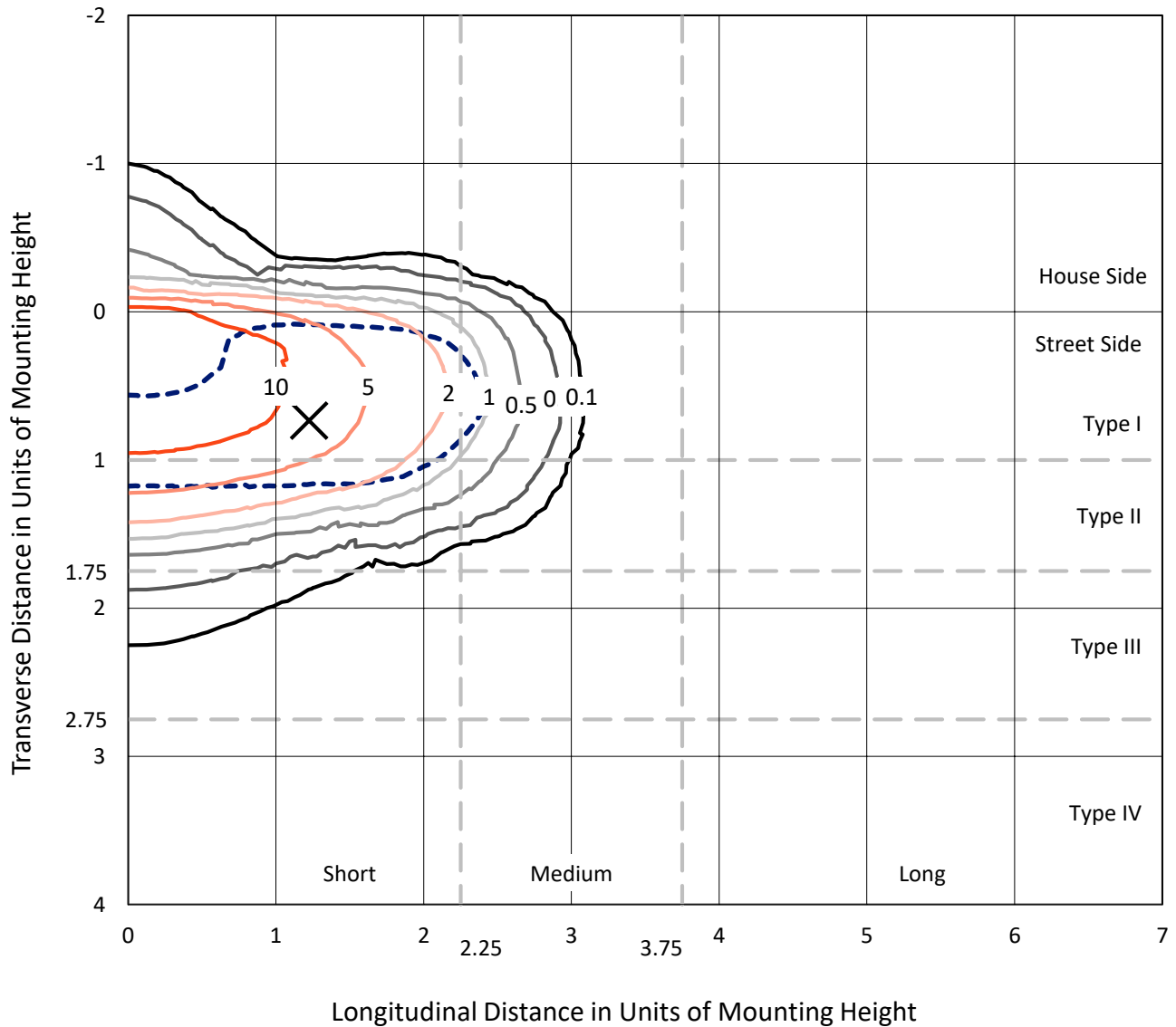


REPORT NUMBER: P300775

CATALOG NUMBER: GLNA-AF-10-LED-E1-AFL-7030-600-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

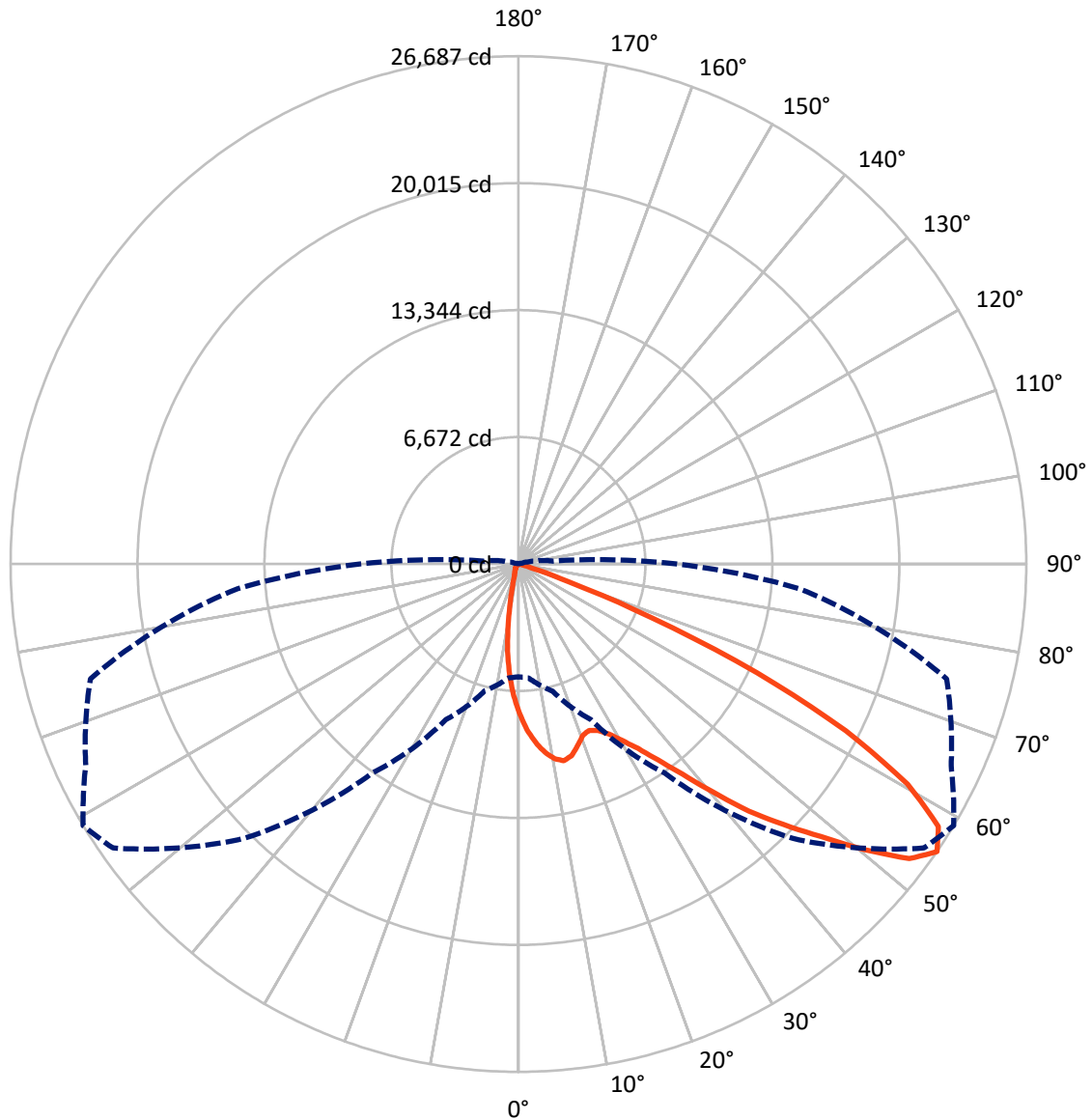


Based on 25 foot mounting height. Maximum calculated value = 15.6 fc
 Type II - Short - Full Cutoff

REPORT NUMBER: P300775

CATALOG NUMBER: GLNA-AF-10-LED-E1-AFL-7030-600-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P300775

CATALOG NUMBER: GLNA-AF-10-LED-E1-AFL-7030-600-HSS

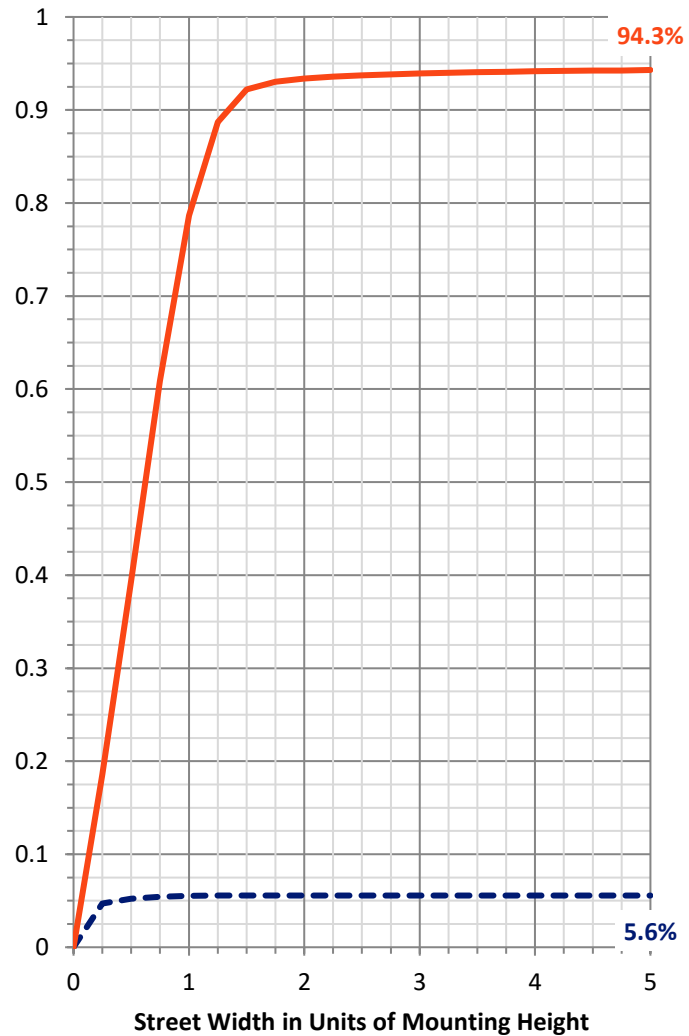
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1559.5	0.0	1559.5
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	26360.5	0.0	26360.5
	% Fixture	94.4	0.0	94.4
Total	Lumens	27920.0	0.0	27920.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	658.3	2.4
10°-20°	1576.2	5.6
20°-30°	2682.0	9.6
30°-40°	4612.5	16.5
40°-50°	7121.2	25.5
50°-60°	7159.1	25.6
60°-70°	3671.2	13.1
70°-80°	397.9	1.4
80°-90°	41.6	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°	27920.0	100.0
0°-180°	27920.0	100.0



--- HS — SS

REPORT NUMBER: P300775

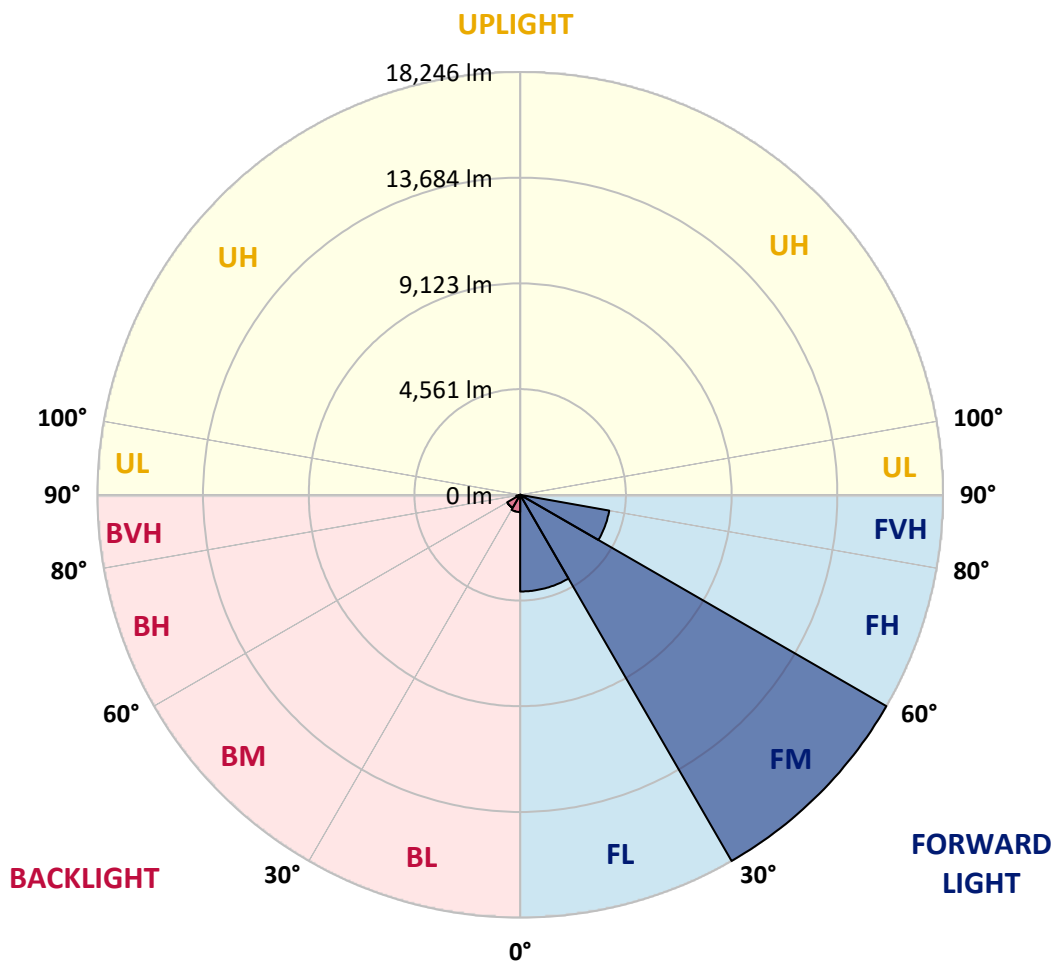
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4172.2	14.9			
FM	(30°-60°)	18245.6	65.3			
FH	(60°-80°)	3902.0	14.0			G2/5000
FVH	(80°-90°)	40.7	0.1			G1/100
BL	(0°-30°)	744.3	2.7	B2/1000		
BM	(30°-60°)	647.2	2.3	B1/1000		
BH	(60°-80°)	167.1	0.6	B1/500		G1/500
BVH	(80°-90°)	0.9	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





REPORT NUMBER: P300775

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	7859.4	7859.4	7859.4	7859.4	7859.4	7859.4	7859.4	7859.4	7859.4	7859.4	7859.4
2.5°	9299.4	9200.6	9170.9	9151.1	9060.5	8946.8	8791.9	8719.5	8571.2	8332.2	8039.0
5°	10151.3	10133.1	10067.2	10031.0	9933.8	9772.3	9525.2	9406.5	9170.9	8768.9	8243.3
7.5°	9778.9	9892.6	9983.2	10134.8	10325.9	10319.3	10111.7	9988.2	9724.5	9194.0	8470.7
10°	8340.5	8432.8	8581.0	8925.4	9627.3	10246.8	10490.7	10401.7	10190.8	9584.5	8689.8
12.5°	8058.7	8048.9	8075.2	8175.7	8543.2	9426.3	10426.4	10606.0	10563.2	9942.0	8897.4
15°	8208.7	8197.1	8193.8	8228.4	8317.4	8689.8	9943.7	10459.4	10790.6	10273.2	9073.7
17.5°	8628.8	8579.4	8553.0	8525.0	8498.7	8590.9	9363.7	10049.1	10825.2	10563.2	9220.3
20°	9348.9	9266.5	9169.3	9011.1	8862.8	8816.7	9119.8	9627.3	10701.6	10784.0	9315.9
22.5°	10253.4	10148.0	9979.9	9691.6	9390.1	9215.4	9240.1	9493.9	10517.1	11024.5	9360.4
25°	11270.0	11134.9	10910.8	10510.5	10067.2	9757.5	9596.0	9685.0	10433.0	11306.3	9411.5
27.5°	12359.1	12209.2	11915.9	11370.5	10868.0	10449.5	10120.0	10108.4	10576.4	11675.4	9493.9
30°	13438.4	13415.3	13033.0	12456.4	11790.7	11281.6	10807.0	10746.1	10976.8	12186.1	9657.0
32.5°	14878.4	14705.4	14237.5	13644.3	12876.5	12265.2	11703.4	11561.7	11591.3	12780.9	9909.1
35°	16694.2	16504.7	15845.6	15026.7	14168.3	13446.6	12825.4	12632.7	12560.2	13754.7	10334.2
37.5°	17867.3	17864.0	17450.4	16616.7	15695.7	14899.8	14224.3	13998.6	13851.9	14931.2	10993.2
40°	17898.6	17976.0	18030.4	18022.2	17366.4	16633.2	16033.4	15755.0	15413.9	16503.0	11845.1
42.5°	16938.0	17137.4	17616.9	18430.8	18819.6	18528.0	18022.2	17748.7	17241.2	18185.3	12883.1
45°	15639.7	15778.1	16616.7	18116.1	19607.2	20406.4	20020.8	19531.4	18862.5	19940.1	13814.0
47.5°	15058.0	15082.7	15624.8	17270.8	19666.5	21945.3	22179.2	21383.4	20335.5	21353.8	14542.3
50°	13319.7	13364.2	14112.3	15806.1	18971.2	22671.9	24347.6	23592.9	21942.0	22442.9	14807.6
52.5°	10039.2	10101.8	11050.9	13398.8	17059.9	22362.1	25899.7	25716.8	23701.7	22975.1	14822.4
55°	5923.4	6005.7	6912.0	9019.3	13418.6	20391.5	26015.0	26687.3	25090.7	23289.8	14799.3
57.5°	2766.4	2824.1	3343.1	4646.4	8345.4	16115.8	24278.4	26021.6	25856.8	23456.2	14962.5
60°	1469.7	1486.2	1611.4	2011.8	3771.5	10218.8	20889.1	23497.4	25158.2	23686.9	15161.8
62.5°	1123.7	1128.7	1122.1	1169.8	1585.1	4536.0	15789.6	19317.2	22345.7	23513.8	14941.0
65°	973.8	982.0	935.9	924.3	1016.6	1618.0	9380.2	13769.5	17559.2	21179.1	13436.7
67.5°	873.3	876.6	820.5	772.8	789.2	874.9	3700.7	7538.1	11622.6	15524.3	9739.4
70°	804.1	800.8	739.8	664.0	642.6	598.1	1176.4	2763.1	5554.3	7872.6	4529.4
72.5°	711.8	713.4	683.8	584.9	533.8	418.5	545.4	805.7	1657.6	2145.3	1061.1
75°	631.1	622.8	586.6	524.0	439.9	275.2	270.2	359.2	510.8	507.5	229.0
77.5°	456.4	448.2	459.7	430.0	337.8	177.9	135.1	173.0	207.6	201.0	64.3
80°	334.5	329.5	296.6	357.5	298.2	121.9	84.0	92.3	107.1	90.6	19.8
82.5°	229.0	227.4	209.3	197.7	169.7	74.1	52.7	57.7	69.2	51.1	9.9
85°	36.2	41.2	151.6	120.3	100.5	33.0	36.2	39.5	46.1	28.0	3.3
87.5°	0.0	0.0	70.8	62.6	19.8	13.2	21.4	23.1	23.1	14.8	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



REPORT NUMBER: P300775

CATALOG NUMBER: GLNA-AF-10-LED-E1-AFL-7030-600-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7859.4	7859.4	7859.4	7859.4	7859.4	7859.4	7859.4	7859.4	7859.4	7859.4	7859.4
2.5°	7889.0	7724.3	7419.4	7104.7	6813.1	6465.4	6226.5	6046.9	5839.3	5783.3	5905.2
5°	7943.4	7632.0	6976.2	6262.8	5592.2	4849.1	4280.6	3830.8	3423.9	3285.4	3410.7
7.5°	8029.1	7566.1	6496.7	5322.0	4155.4	2995.5	2201.3	1679.0	1346.1	1247.3	1300.0
10°	8114.8	7470.5	5941.5	4208.1	2613.2	1458.2	949.1	757.9	687.1	672.2	680.5
12.5°	8185.6	7342.0	5264.3	2992.2	1397.2	781.0	621.2	589.9	580.0	580.0	583.3
15°	8228.4	7147.6	4461.9	1903.1	804.1	589.9	542.1	532.2	532.2	533.8	537.1
17.5°	8223.5	6900.4	3583.7	1151.7	601.4	522.3	494.3	486.1	484.4	487.7	489.4
20°	8162.5	6577.5	2702.2	759.6	524.0	476.2	448.2	433.3	431.7	435.0	438.3
22.5°	8047.2	6178.7	1932.7	584.9	472.9	431.7	397.1	383.9	383.9	387.2	390.5
25°	7907.2	5691.0	1321.4	495.9	426.7	383.9	351.0	339.4	342.7	351.0	352.6
27.5°	7732.5	5142.4	898.0	425.1	370.7	336.1	311.4	303.2	311.4	322.9	326.2
30°	7582.6	4570.6	640.9	367.4	314.7	290.0	275.2	275.2	286.7	308.1	313.1
32.5°	7467.2	4017.0	494.3	324.6	273.5	252.1	243.9	252.1	270.2	291.6	296.6
35°	7452.4	3560.6	418.5	290.0	243.9	222.4	219.1	234.0	252.1	268.6	271.9
37.5°	7566.1	3138.8	377.3	262.0	217.5	197.7	194.4	212.5	230.7	250.4	255.4
40°	7781.9	2807.6	347.7	235.6	196.1	174.7	168.1	181.2	206.0	232.3	238.9
42.5°	8062.0	2534.1	314.7	209.3	174.7	145.0	136.8	151.6	177.9	206.0	214.2
45°	8329.0	2298.5	278.5	179.6	146.6	112.0	108.7	128.5	141.7	169.7	176.3
47.5°	8475.6	2090.9	247.1	146.6	113.7	90.6	90.6	95.6	108.7	141.7	148.3
50°	8426.2	1924.5	214.2	108.7	79.1	69.2	69.2	67.6	87.3	113.7	118.6
52.5°	8327.3	1828.9	184.5	84.0	54.4	49.4	44.5	49.4	61.0	72.5	74.1
55°	8312.5	1812.4	154.9	67.6	37.9	33.0	24.7	24.7	24.7	23.1	19.8
57.5°	8427.8	1838.8	130.2	54.4	28.0	21.4	13.2	0.0	0.0	0.0	0.0
60°	8546.4	1866.8	112.0	37.9	19.8	11.5	1.6	0.0	0.0	0.0	0.0
62.5°	8348.7	1804.2	93.9	23.1	14.8	4.9	0.0	0.0	0.0	0.0	0.0
65°	7333.8	1535.6	74.1	16.5	9.9	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	5216.5	1028.1	49.4	9.9	1.6	0.0	0.0	0.0	0.0	0.0	0.0
70°	2380.9	430.0	31.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	509.1	133.5	21.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	103.8	97.2	8.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	33.0	153.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	19.8	110.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	3.3	16.5	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)