

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: P300637

Luminaire Tested: **GLNA-AF-07-LED-E1-AFL-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300637
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-07-LED-E1-AFL-7030-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(7) 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: 30287.1 lumens
Efficiency: N/A
Efficacy: 77.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

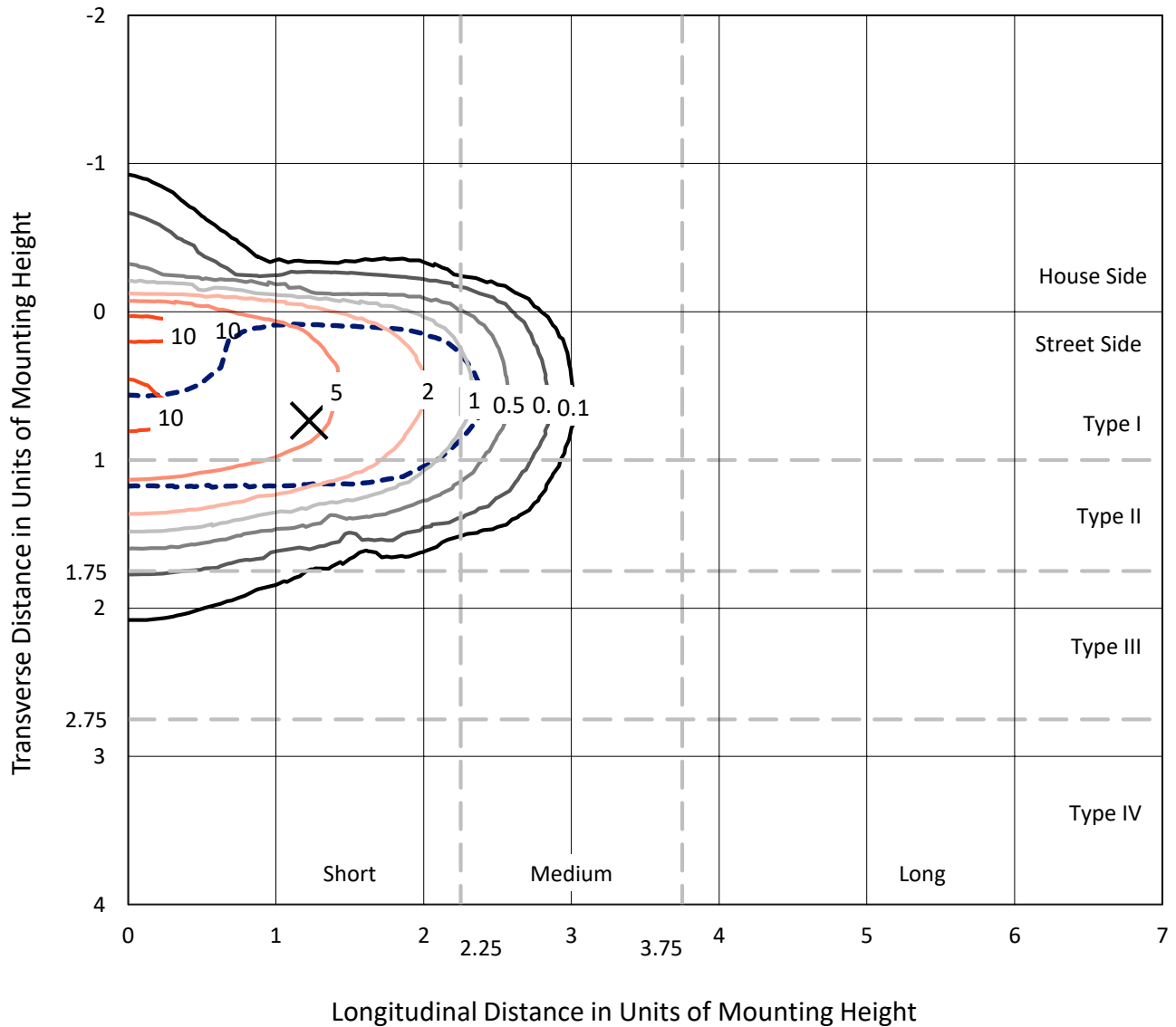
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

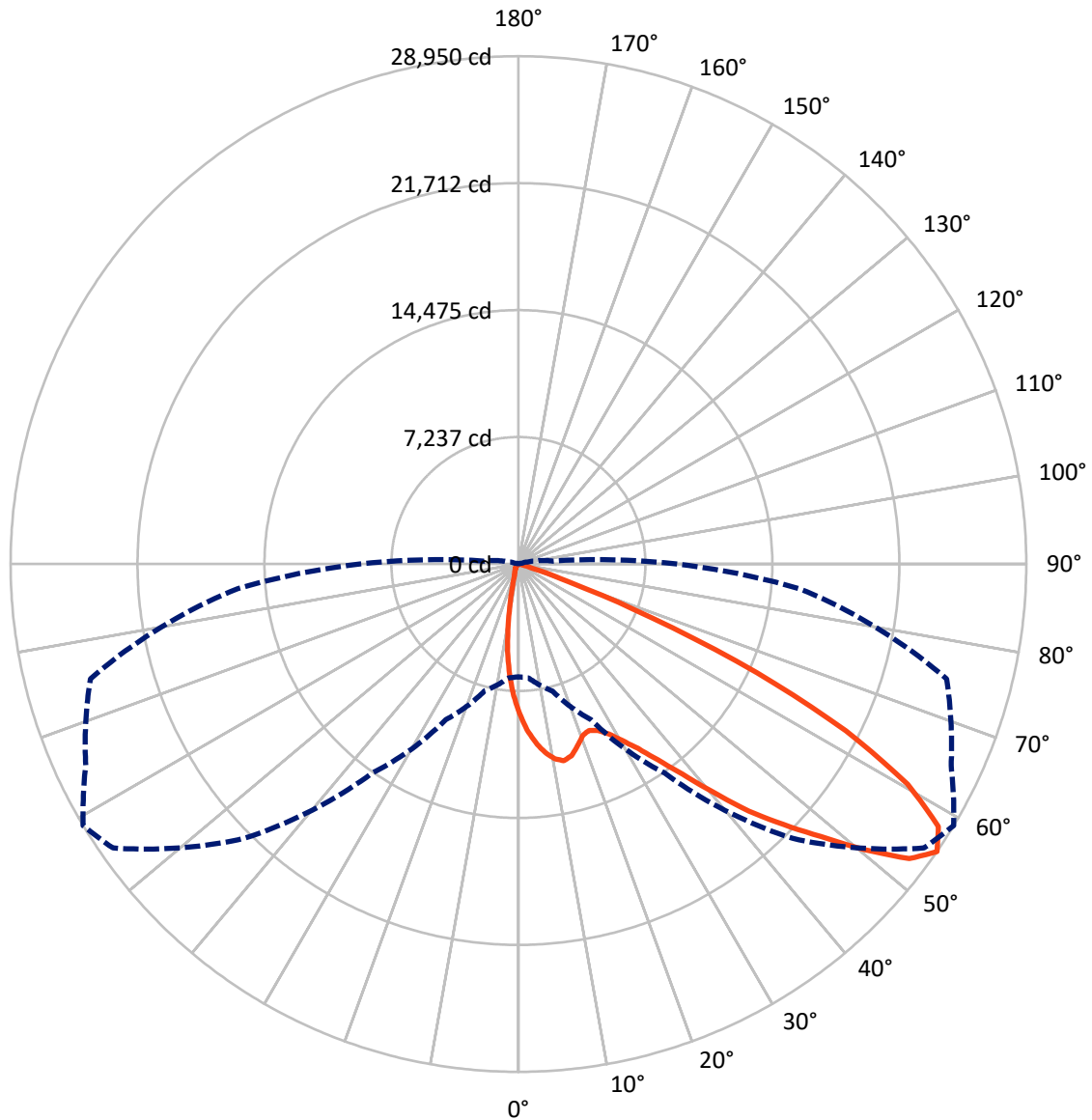


Based on 30 foot mounting height. Maximum calculated value = 11.8 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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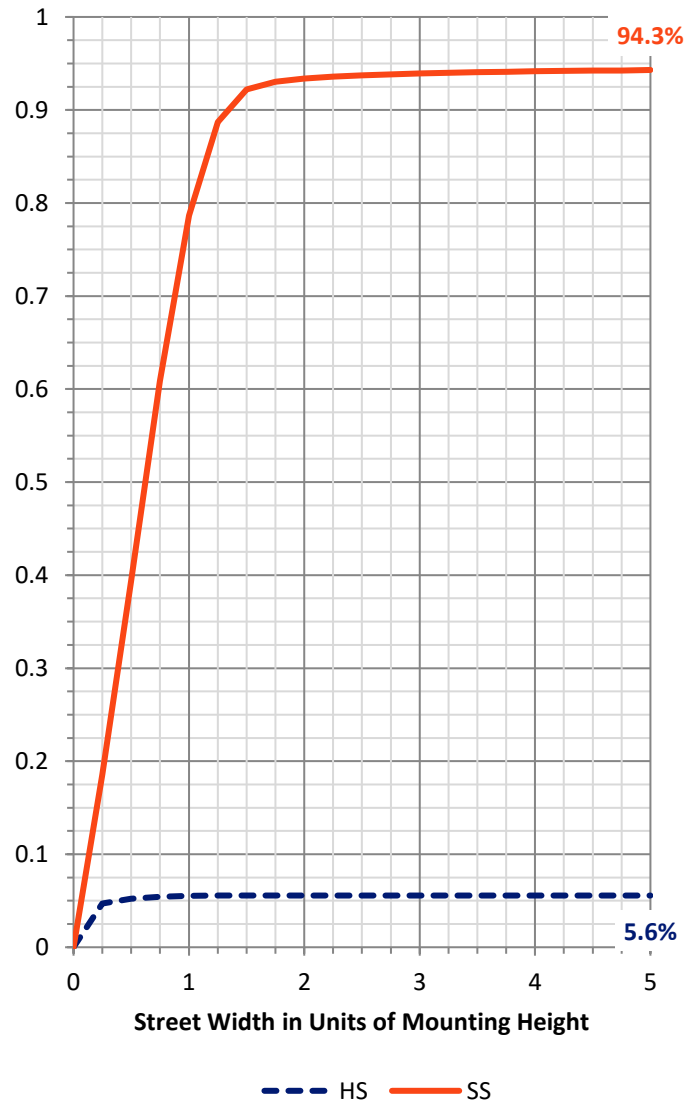
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1691.7	0.0	1691.7
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	28595.4	0.0	28595.4
	% Fixture	94.4	0.0	94.4
Total	Lumens	30287.1	0.0	30287.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	714.1	2.4
10°-20°	1709.8	5.6
20°-30°	2909.4	9.6
30°-40°	5003.6	16.5
40°-50°	7725.0	25.5
50°-60°	7766.1	25.6
60°-70°	3982.5	13.1
70°-80°	431.6	1.4
80°-90°	45.1	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°	30287.1	100.0
0°-180°	30287.1	100.0



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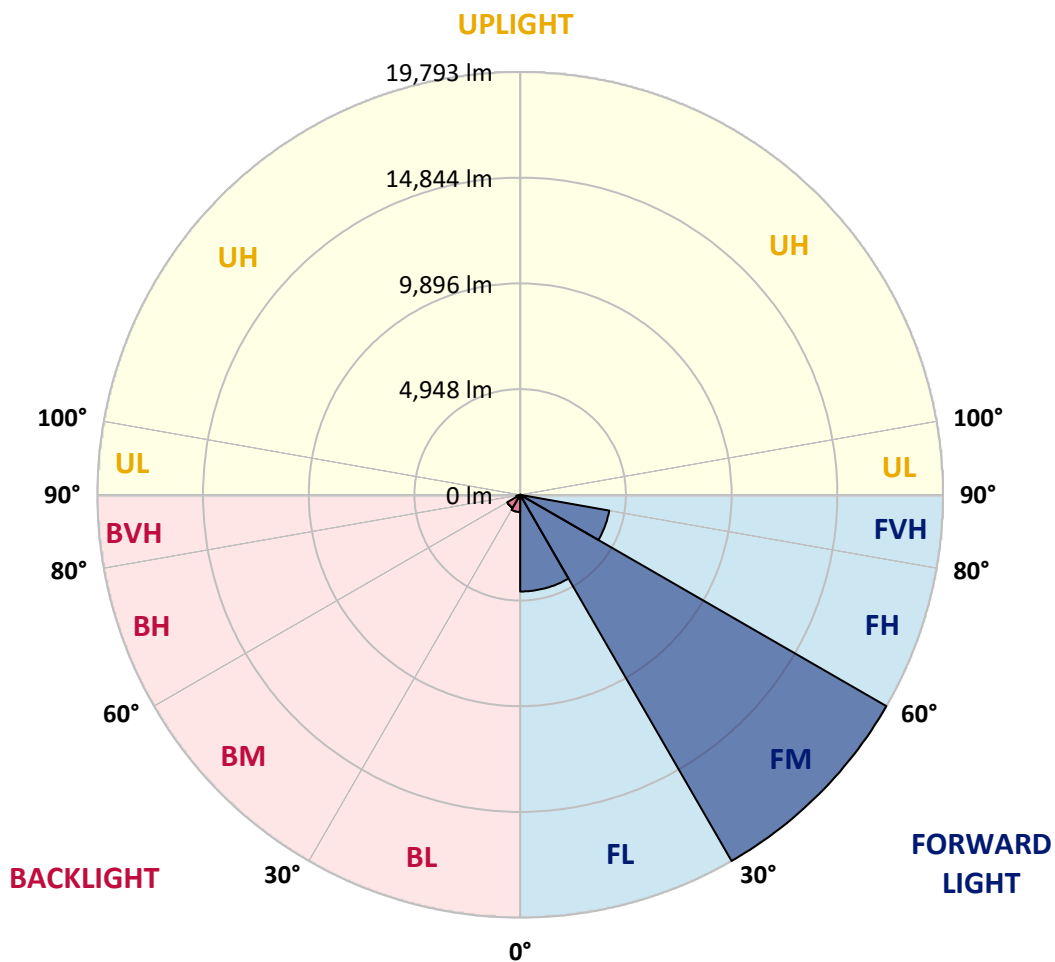
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4525.9	14.9			
FM	(30°-60°)	19792.5	65.3			
FH	(60°-80°)	4232.8	14.0			G2/5000
FVH	(80°-90°)	44.2	0.1			G1/100
BL	(0°-30°)	807.5	2.7	B2/1000		
BM	(30°-60°)	702.1	2.3	B1/1000		
BH	(60°-80°)	181.2	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	8525.7	8525.7	8525.7	8525.7	8525.7	8525.7	8525.7	8525.7	8525.7	8525.7	8525.7
2.5°	10087.9	9980.6	9948.5	9927.0	9828.7	9705.4	9537.4	9458.7	9297.9	9038.7	8720.5
5°	11011.9	10992.3	10920.8	10881.5	10776.0	10600.8	10332.7	10204.1	9948.5	9512.3	8942.2
7.5°	10608.0	10731.3	10829.6	10994.1	11201.4	11194.3	10969.0	10835.0	10549.0	9973.5	9188.8
10°	9047.6	9147.7	9308.6	9682.1	10443.6	11115.6	11380.1	11283.6	11054.8	10397.1	9426.6
12.5°	8742.0	8731.3	8759.9	8868.9	9267.5	10225.5	11310.4	11505.3	11458.8	10784.9	9651.8
15°	8904.6	8892.1	8888.6	8926.1	9022.6	9426.6	10786.7	11346.2	11705.4	11144.2	9843.0
17.5°	9360.4	9306.8	9278.2	9247.8	9219.2	9319.3	10157.6	10901.1	11743.0	11458.8	10002.1
20°	10141.5	10052.1	9946.7	9775.1	9614.2	9564.2	9893.1	10443.6	11608.9	11698.3	10105.8
22.5°	11122.8	11008.4	10826.1	10513.3	10186.2	9996.7	10023.5	10298.8	11408.7	11959.2	10154.0
25°	12225.6	12079.0	11835.9	11401.6	10920.8	10584.8	10409.6	10506.1	11317.6	12264.9	10209.4
27.5°	13407.0	13244.4	12926.2	12334.6	11789.4	11335.5	10978.0	10965.5	11473.1	12665.3	10298.8
30°	14577.7	14552.7	14138.0	13512.5	12790.4	12238.1	11723.3	11657.2	11907.4	13219.3	10475.7
32.5°	16139.9	15952.2	15444.6	14801.2	13968.2	13305.1	12695.6	12541.9	12574.1	13864.6	10749.2
35°	18109.6	17904.0	17189.1	16300.8	15369.5	14586.7	13912.8	13703.7	13625.1	14920.9	11210.3
37.5°	19382.2	19378.6	18930.0	18025.6	17026.4	16163.1	15430.3	15185.4	15026.4	16197.1	11925.3
40°	19416.1	19500.1	19559.1	19550.2	18838.8	18043.4	17392.8	17090.8	16720.8	17902.2	12849.4
42.5°	18374.1	18590.4	19110.5	19993.4	20415.3	20098.9	19550.2	19253.5	18703.0	19727.1	13975.4
45°	16965.6	17115.8	18025.6	19652.1	21269.6	22136.5	21718.2	21187.4	20461.7	21630.7	14985.3
47.5°	16334.7	16361.5	16949.6	18735.1	21334.0	23805.9	24059.7	23196.4	22059.6	23164.2	15775.3
50°	14449.0	14497.3	15308.8	17146.2	20579.7	24594.1	26411.9	25593.3	23802.3	24345.7	16063.0
52.5°	10890.4	10958.3	11987.8	14534.8	18506.4	24258.1	28095.6	27897.2	25711.2	24923.0	16079.1
55°	6425.6	6514.9	7498.0	9784.0	14556.3	22120.4	28220.7	28949.9	27218.0	25264.4	16054.1
57.5°	3001.0	3063.5	3626.6	5040.4	9053.0	17482.2	26336.8	28227.8	28049.1	25444.9	16231.0
60°	1594.3	1612.2	1748.0	2182.4	4091.3	11085.2	22660.2	25489.6	27291.2	25695.1	16447.3
62.5°	1219.0	1224.3	1217.2	1269.0	1719.4	4920.6	17128.3	20955.0	24240.2	25507.5	16207.8
65°	1056.3	1065.3	1015.2	1002.7	1102.8	1755.2	10175.5	14937.0	19047.9	22974.8	14575.9
67.5°	947.3	950.9	890.1	838.3	856.1	949.1	4014.4	8177.2	12608.1	16840.5	10565.1
70°	872.2	868.7	802.5	720.3	697.1	648.8	1276.2	2997.4	6025.2	8540.0	4913.5
72.5°	772.1	773.9	741.8	634.5	579.1	454.0	591.6	874.0	1798.1	2327.1	1151.1
75°	684.6	675.6	636.3	568.4	477.2	298.5	293.1	389.6	554.1	550.5	248.4
77.5°	495.1	486.2	498.7	466.5	366.4	193.0	146.6	187.7	225.2	218.1	69.7
80°	362.8	357.5	321.7	387.9	323.5	132.3	91.2	100.1	116.2	98.3	21.4
82.5°	248.4	246.7	227.0	214.5	184.1	80.4	57.2	62.6	75.1	55.4	10.7
85°	39.3	44.7	164.4	130.5	109.0	35.7	39.3	42.9	50.0	30.4	3.6
87.5°	0.0	0.0	76.9	67.9	21.4	14.3	23.2	25.0	25.0	16.1	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°	8525.7	8525.7	8525.7	8525.7	8525.7	8525.7	8525.7	8525.7	8525.7	8525.7	8525.7
2.5°	8557.9	8379.2	8048.5	7707.1	7390.7	7013.6	6754.4	6559.6	6334.4	6273.6	6405.9
5°	8616.9	8279.1	7567.7	6793.8	6066.3	5260.2	4643.6	4155.6	3714.1	3564.0	3699.8
7.5°	8709.8	8207.6	7047.6	5773.2	4507.7	3249.4	2387.9	1821.3	1460.3	1353.0	1410.2
10°	8802.8	8103.9	6445.2	4564.9	2834.8	1581.8	1029.5	822.2	745.3	729.2	738.2
12.5°	8879.6	7964.5	5710.6	3245.9	1515.7	847.2	673.8	639.9	629.2	629.2	632.7
15°	8926.1	7753.6	4840.2	2064.4	872.2	639.9	588.0	577.3	577.3	579.1	582.7
17.5°	8920.7	7485.5	3887.5	1249.4	652.4	566.6	536.2	527.3	525.5	529.1	530.8
20°	8854.6	7135.2	2931.3	824.0	568.4	516.5	486.2	470.1	468.3	471.9	475.4
22.5°	8729.5	6702.6	2096.6	634.5	513.0	468.3	430.8	416.5	416.5	420.0	423.6
25°	8577.6	6173.6	1433.5	538.0	462.9	416.5	380.7	368.2	371.8	380.7	382.5
27.5°	8388.1	5578.4	974.1	461.1	402.2	364.6	337.8	328.9	337.8	350.3	353.9
30°	8225.4	4958.1	695.3	398.6	341.4	314.6	298.5	298.5	311.0	334.2	339.6
32.5°	8100.3	4357.6	536.2	352.1	296.7	273.5	264.5	273.5	293.1	316.4	321.7
35°	8084.2	3862.5	454.0	314.6	264.5	241.3	237.7	253.8	273.5	291.3	294.9
37.5°	8207.6	3404.9	409.3	284.2	235.9	214.5	210.9	230.6	250.2	271.7	277.0
40°	8441.7	3045.7	377.1	255.6	212.7	189.5	182.3	196.6	223.4	252.0	259.2
42.5°	8745.6	2749.0	341.4	227.0	189.5	157.3	148.4	164.4	193.0	223.4	232.4
45°	9035.1	2493.4	302.1	194.8	159.1	121.5	118.0	139.4	153.7	184.1	191.2
47.5°	9194.2	2268.2	268.1	159.1	123.3	98.3	98.3	103.7	118.0	153.7	160.9
50°	9140.6	2087.6	232.4	118.0	85.8	75.1	75.1	73.3	94.7	123.3	128.7
52.5°	9033.3	1984.0	200.2	91.2	59.0	53.6	48.3	53.6	66.1	78.6	80.4
55°	9017.2	1966.1	168.0	73.3	41.1	35.7	26.8	26.8	26.8	25.0	21.4
57.5°	9142.4	1994.7	141.2	59.0	30.4	23.2	14.3	0.0	0.0	0.0	0.0
60°	9271.1	2025.1	121.5	41.1	21.4	12.5	1.8	0.0	0.0	0.0	0.0
62.5°	9056.6	1957.2	101.9	25.0	16.1	5.4	0.0	0.0	0.0	0.0	0.0
65°	7955.6	1665.8	80.4	17.9	10.7	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	5658.8	1115.3	53.6	10.7	1.8	0.0	0.0	0.0	0.0	0.0	0.0
70°	2582.7	466.5	34.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	552.3	144.8	23.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	112.6	105.5	8.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	35.7	166.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	21.4	119.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	3.6	17.9	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)