

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: P300685

Luminaire Tested: **GLNA-AF-05-LED-E1-AFL-7030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300685
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-7030-800-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Automotive Frontline WITH HOUSESIDE SHIELD OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17289.6 lumens
Efficiency: N/A
Efficacy: 82.3 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): 210
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

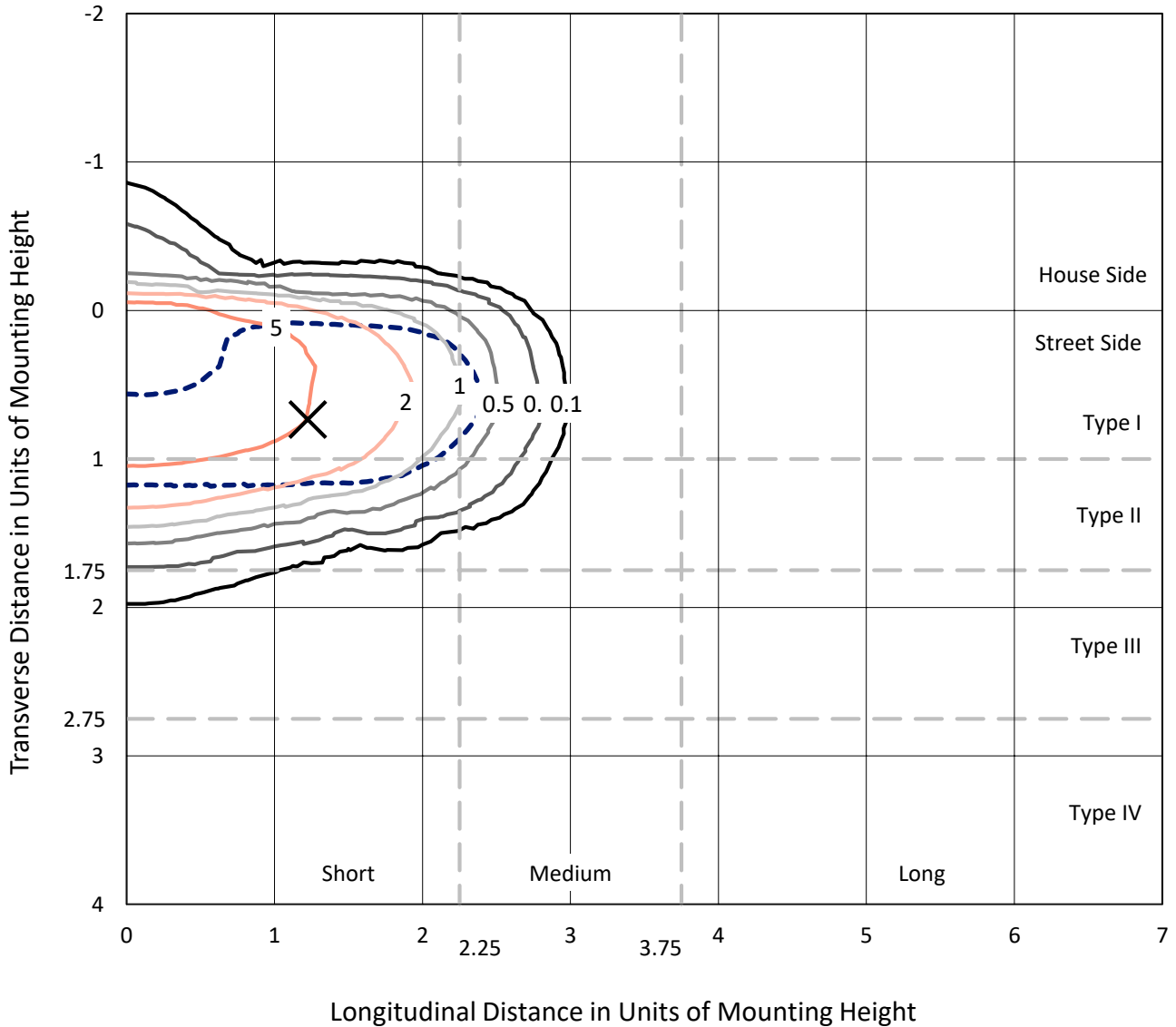


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

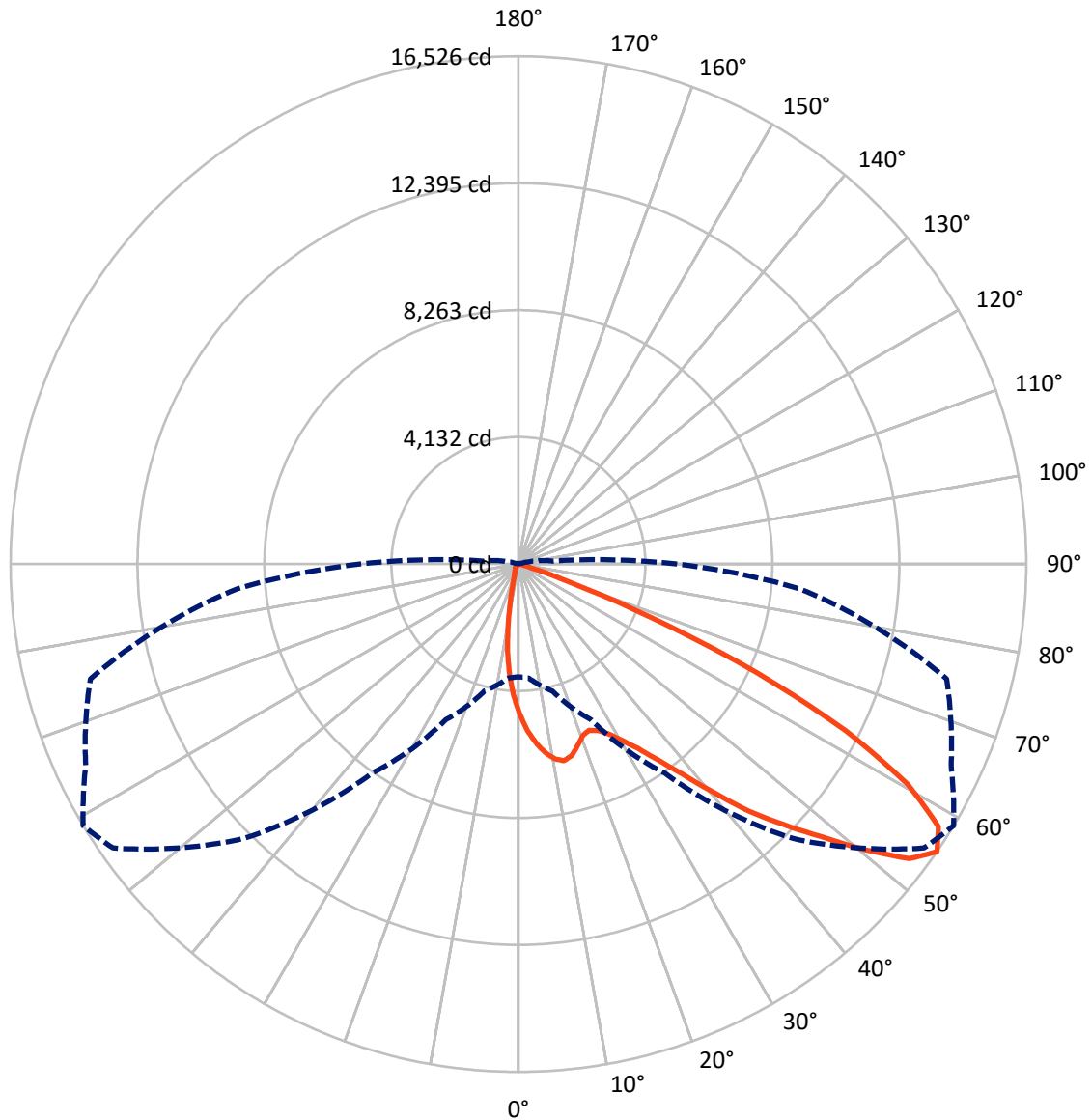


Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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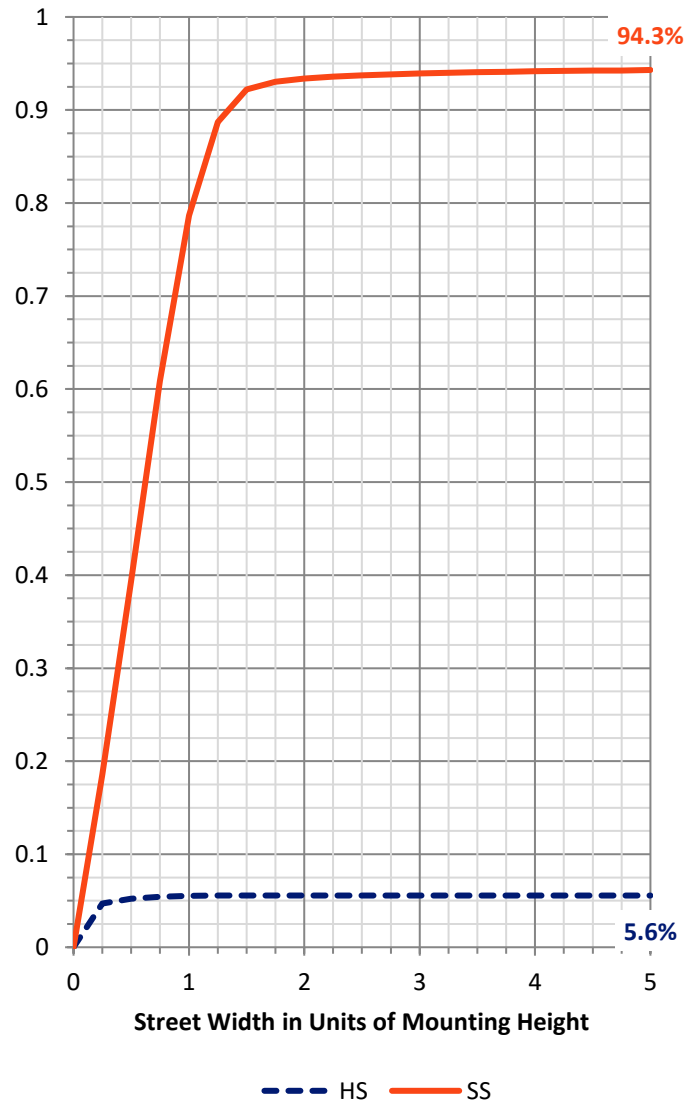
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	965.7	0.0	965.7
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	16323.9	0.0	16323.9
	% Fixture	94.4	0.0	94.4
Total	Lumens	17289.6	0.0	17289.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.7	2.4
10°-20°	976.1	5.6
20°-30°	1660.9	9.6
30°-40°	2856.3	16.5
40°-50°	4409.9	25.5
50°-60°	4433.3	25.6
60°-70°	2273.4	13.1
70°-80°	246.4	1.4
80°-90°	25.8	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°	17289.6	100.0
0°-180°	17289.6	100.0

Coefficient of Utilization



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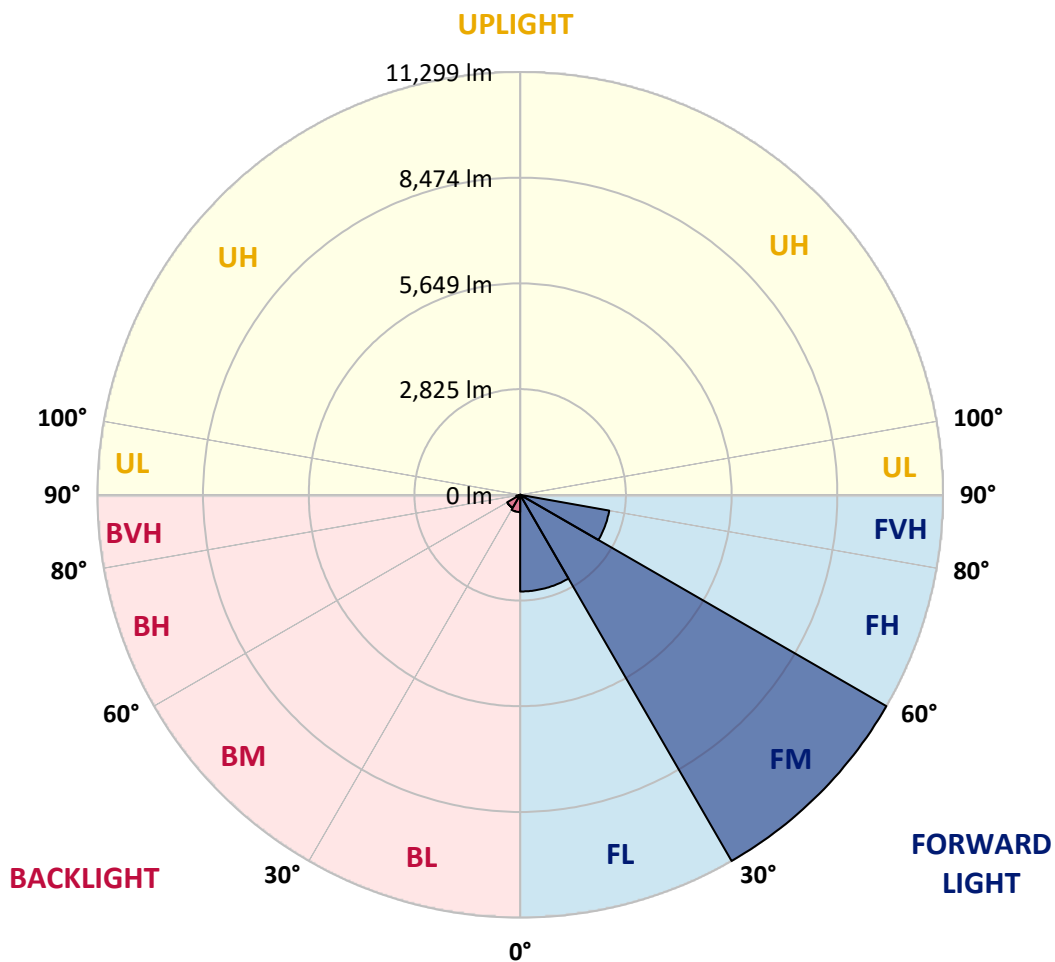
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2583.6	14.9			
FM	(30°-60°)	11298.7	65.3			
FH	(60°-80°)	2416.3	14.0			G2/5000
FVH	(80°-90°)	25.2	0.1			G1/100
BL	(0°-30°)	460.9	2.7	B1/500		
BM	(30°-60°)	400.8	2.3	B1/1000		
BH	(60°-80°)	103.5	0.6	B0/110		G0/110
BVH	(80°-90°)	0.5	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°	4867.0	4867.0	4867.0	4867.0	4867.0	4867.0	4867.0	4867.0	4867.0	4867.0	4867.0
2.5°	5758.7	5697.5	5679.1	5666.9	5610.8	5540.4	5444.5	5399.6	5307.7	5159.8	4978.2
5°	6286.2	6275.0	6234.2	6211.8	6151.6	6051.6	5898.5	5825.1	5679.1	5430.2	5104.7
7.5°	6055.6	6126.0	6182.2	6276.0	6394.4	6390.3	6261.8	6185.2	6022.0	5693.4	5245.5
10°	5164.9	5222.0	5313.9	5527.1	5961.8	6345.4	6496.4	6441.3	6310.7	5935.2	5381.2
12.5°	4990.4	4984.3	5000.6	5062.9	5290.4	5837.3	6456.6	6567.9	6541.3	6156.7	5509.8
15°	5083.3	5076.1	5074.1	5095.5	5150.6	5381.2	6157.7	6477.0	6682.1	6361.7	5618.9
17.5°	5343.5	5312.8	5296.5	5279.2	5262.9	5320.0	5798.5	6223.0	6703.6	6541.3	5709.8
20°	5789.3	5738.3	5678.1	5580.2	5488.3	5459.8	5647.5	5961.8	6627.0	6678.0	5768.9
22.5°	6349.5	6284.2	6180.1	6001.6	5814.8	5706.7	5722.0	5879.1	6512.8	6827.0	5796.5
25°	6979.0	6895.4	6756.6	6508.7	6234.2	6042.4	5942.4	5997.5	6460.7	7001.5	5828.1
27.5°	7653.5	7560.6	7379.0	7041.3	6730.1	6470.9	6266.9	6259.7	6549.5	7230.0	5879.1
30°	8321.8	8307.5	8070.8	7713.7	7301.5	6986.2	6692.3	6654.6	6797.4	7546.3	5980.1
32.5°	9213.6	9106.4	8816.7	8449.3	7973.9	7595.3	7247.4	7159.6	7178.0	7914.7	6136.3
35°	10338.0	10220.6	9812.5	9305.4	8773.8	8326.9	7942.2	7822.9	7778.0	8517.7	6399.5
37.5°	11064.4	11062.4	10806.3	10290.0	9719.6	9226.8	8808.5	8668.7	8577.9	9246.2	6807.6
40°	11083.8	11131.8	11165.5	11160.3	10754.3	10300.2	9928.8	9756.4	9545.2	10219.6	7335.1
42.5°	10489.0	10612.4	10909.3	11413.4	11654.2	11473.6	11160.3	10991.0	10676.7	11261.4	7977.9
45°	9685.0	9770.7	10290.0	11218.5	12141.9	12636.8	12398.0	12095.0	11680.7	12348.0	8554.4
47.5°	9324.8	9340.1	9675.8	10695.1	12178.6	13589.7	13734.6	13241.8	12592.9	13223.5	9005.4
50°	8248.3	8275.9	8739.1	9788.0	11748.1	14039.7	15077.4	14610.1	13587.7	13897.9	9169.7
52.5°	6216.9	6255.6	6843.3	8297.3	10564.5	13847.9	16038.5	15925.3	14677.4	14227.5	9178.9
55°	3668.1	3719.1	4280.3	5585.3	8309.6	12627.6	16110.0	16526.3	15537.6	14422.3	9164.6
57.5°	1713.1	1748.8	2070.2	2877.3	5168.0	9979.8	15034.5	16114.0	16012.0	14525.4	9265.6
60°	910.1	920.3	997.9	1245.8	2335.5	6328.1	12935.7	14550.9	15579.4	14668.2	9389.1
62.5°	695.9	698.9	694.8	724.4	981.6	2809.0	9777.8	11962.3	13837.7	14561.1	9252.3
65°	603.0	608.1	579.5	572.4	629.5	1002.0	5808.7	8526.9	10873.6	13115.3	8320.8
67.5°	540.8	542.8	508.1	478.5	488.7	541.8	2291.7	4668.0	7197.4	9613.5	6031.2
70°	497.9	495.9	458.1	411.2	397.9	370.4	728.5	1711.1	3439.5	4875.1	2804.9
72.5°	440.8	441.8	423.4	362.2	330.6	259.2	337.7	498.9	1026.5	1328.5	657.1
75°	390.8	385.7	363.2	324.5	272.4	170.4	167.3	222.4	316.3	314.3	141.8
77.5°	282.6	277.5	284.7	266.3	209.2	110.2	83.7	107.1	128.6	124.5	39.8
80°	207.1	204.1	183.7	221.4	184.7	75.5	52.0	57.1	66.3	56.1	12.2
82.5°	141.8	140.8	129.6	122.4	105.1	45.9	32.7	35.7	42.9	31.6	6.1
85°	22.4	25.5	93.9	74.5	62.2	20.4	22.4	24.5	28.6	17.3	2.0
87.5°	0.0	0.0	43.9	38.8	12.2	8.2	13.3	14.3	14.3	9.2	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°	4867.0	4867.0	4867.0	4867.0	4867.0	4867.0	4867.0	4867.0	4867.0	4867.0	4867.0
2.5°	4885.3	4783.3	4594.5	4399.7	4219.1	4003.8	3855.8	3744.6	3616.0	3581.4	3656.9
5°	4919.0	4726.2	4320.1	3878.3	3463.0	3002.8	2650.8	2372.3	2120.2	2034.5	2112.1
7.5°	4972.1	4685.3	4023.2	3295.7	2573.3	1855.0	1363.2	1039.7	833.6	772.4	805.0
10°	5025.1	4626.2	3679.3	2605.9	1618.2	903.0	587.7	469.4	425.5	416.3	421.4
12.5°	5069.0	4546.6	3259.9	1852.9	865.2	483.6	384.7	365.3	359.2	359.2	361.2
15°	5095.5	4426.2	2763.0	1178.5	497.9	365.3	335.7	329.6	329.6	330.6	332.6
17.5°	5092.5	4273.1	2219.2	713.2	372.4	323.4	306.1	301.0	300.0	302.0	303.0
20°	5054.7	4073.1	1673.3	470.4	324.5	294.9	277.5	268.3	267.3	269.4	271.4
22.5°	4983.3	3826.2	1196.8	362.2	292.8	267.3	245.9	237.7	237.7	239.8	241.8
25°	4896.6	3524.2	818.3	307.1	264.3	237.7	217.3	210.2	212.2	217.3	218.4
27.5°	4788.4	3184.4	556.1	263.2	229.6	208.1	192.8	187.7	192.8	200.0	202.0
30°	4695.5	2830.4	396.9	227.5	194.9	179.6	170.4	170.4	177.5	190.8	193.9
32.5°	4624.1	2487.6	306.1	201.0	169.4	156.1	151.0	156.1	167.3	180.6	183.7
35°	4614.9	2204.9	259.2	179.6	151.0	137.7	135.7	144.9	156.1	166.3	168.4
37.5°	4685.3	1943.7	233.7	162.2	134.7	122.4	120.4	131.6	142.8	155.1	158.2
40°	4819.0	1738.6	215.3	145.9	121.4	108.2	104.1	112.2	127.5	143.9	147.9
42.5°	4992.5	1569.3	194.9	129.6	108.2	89.8	84.7	93.9	110.2	127.5	132.6
45°	5157.8	1423.4	172.4	111.2	90.8	69.4	67.3	79.6	87.7	105.1	109.2
47.5°	5248.6	1294.8	153.0	90.8	70.4	56.1	56.1	59.2	67.3	87.7	91.8
50°	5218.0	1191.7	132.6	67.3	49.0	42.9	42.9	41.8	54.1	70.4	73.5
52.5°	5156.7	1132.6	114.3	52.0	33.7	30.6	27.5	30.6	37.8	44.9	45.9
55°	5147.6	1122.4	95.9	41.8	23.5	20.4	15.3	15.3	15.3	14.3	12.2
57.5°	5219.0	1138.7	80.6	33.7	17.3	13.3	8.2	0.0	0.0	0.0	0.0
60°	5292.4	1156.0	69.4	23.5	12.2	7.1	1.0	0.0	0.0	0.0	0.0
62.5°	5170.0	1117.3	58.2	14.3	9.2	3.1	0.0	0.0	0.0	0.0	0.0
65°	4541.5	950.9	45.9	10.2	6.1	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	3230.4	636.7	30.6	6.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	1474.4	266.3	19.4	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	315.3	82.6	13.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	64.3	60.2	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	20.4	94.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	12.2	68.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.0	10.2	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)