

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: P300619

Luminaire Tested: **GLNA-AF-04-LED-E1-AFL-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300619
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-04-LED-E1-AFL-7030-HSS
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(4) 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: 17272.7 lumens
Efficiency: N/A
Efficacy: 76.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 225
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

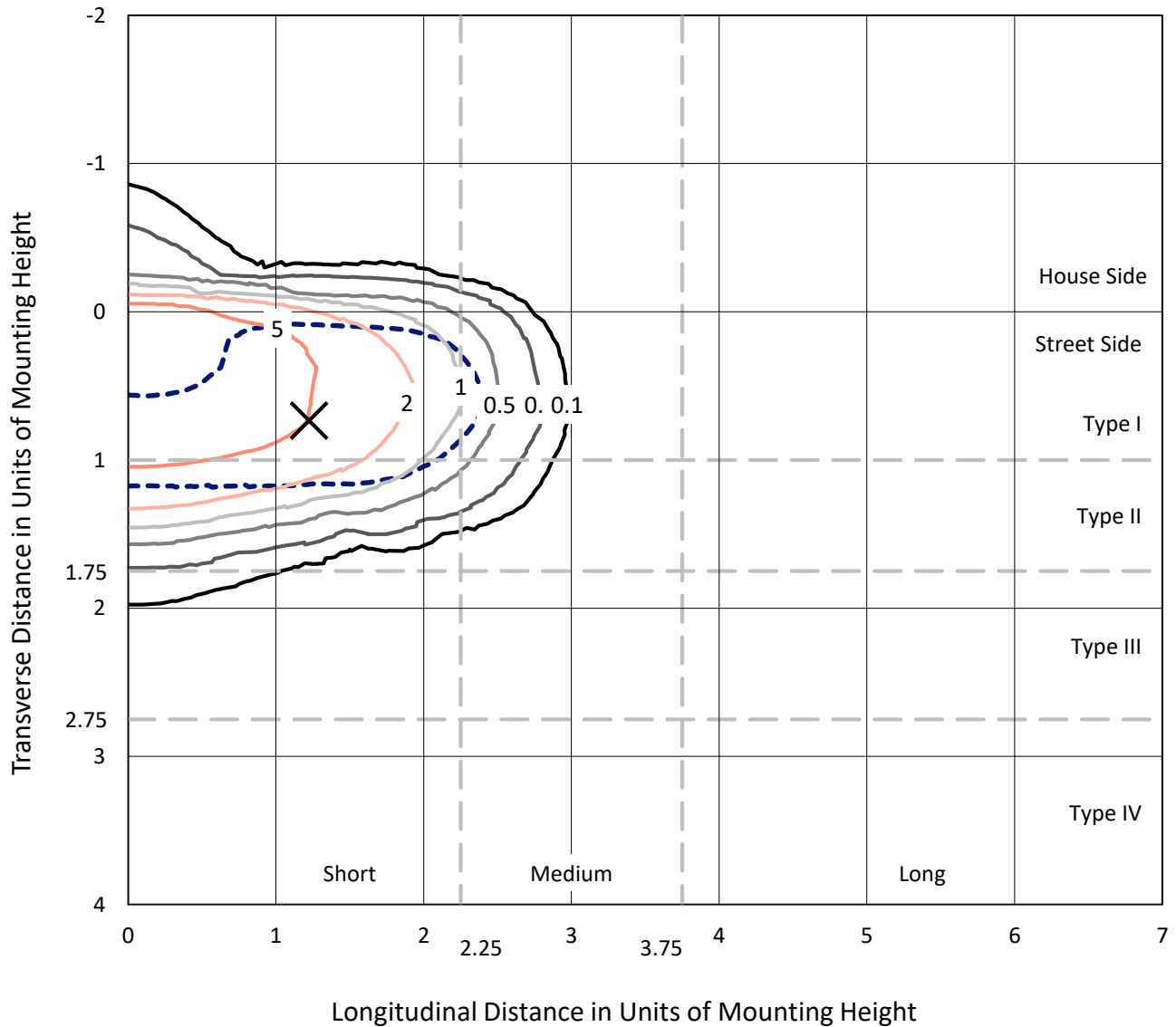


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Iso-Footcandle Lines of Horizontal Illumination

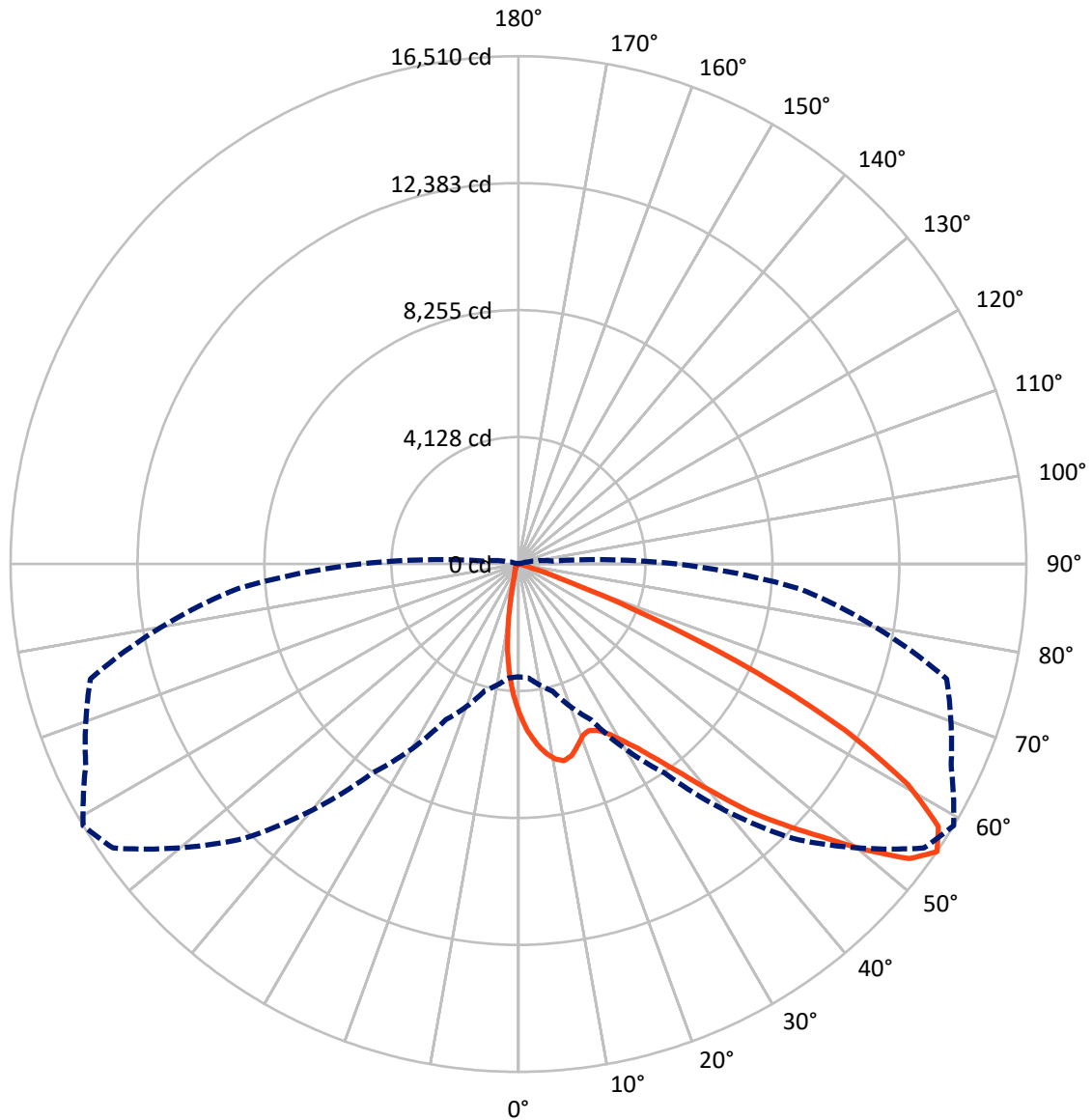
✕ Max cd
 - - - 1/2 Max cd



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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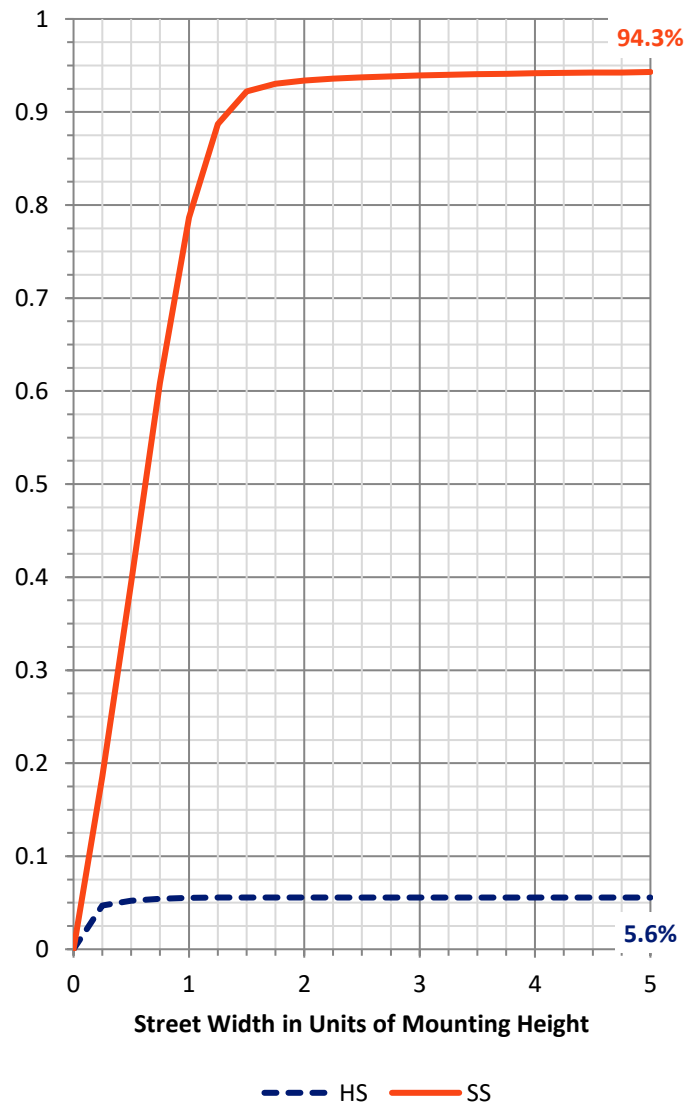
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	964.8	0.0	964.8
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	16307.9	0.0	16307.9
	% Fixture	94.4	0.0	94.4
Total	Lumens	17272.7	0.0	17272.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.3	2.4
10°-20°	975.1	5.6
20°-30°	1659.2	9.6
30°-40°	2853.5	16.5
40°-50°	4405.5	25.5
50°-60°	4429.0	25.6
60°-70°	2271.2	13.1
70°-80°	246.1	1.4
80°-90°	25.7	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°	17272.7	100.0
0°-180°	17272.7	100.0

Coefficient of Utilization



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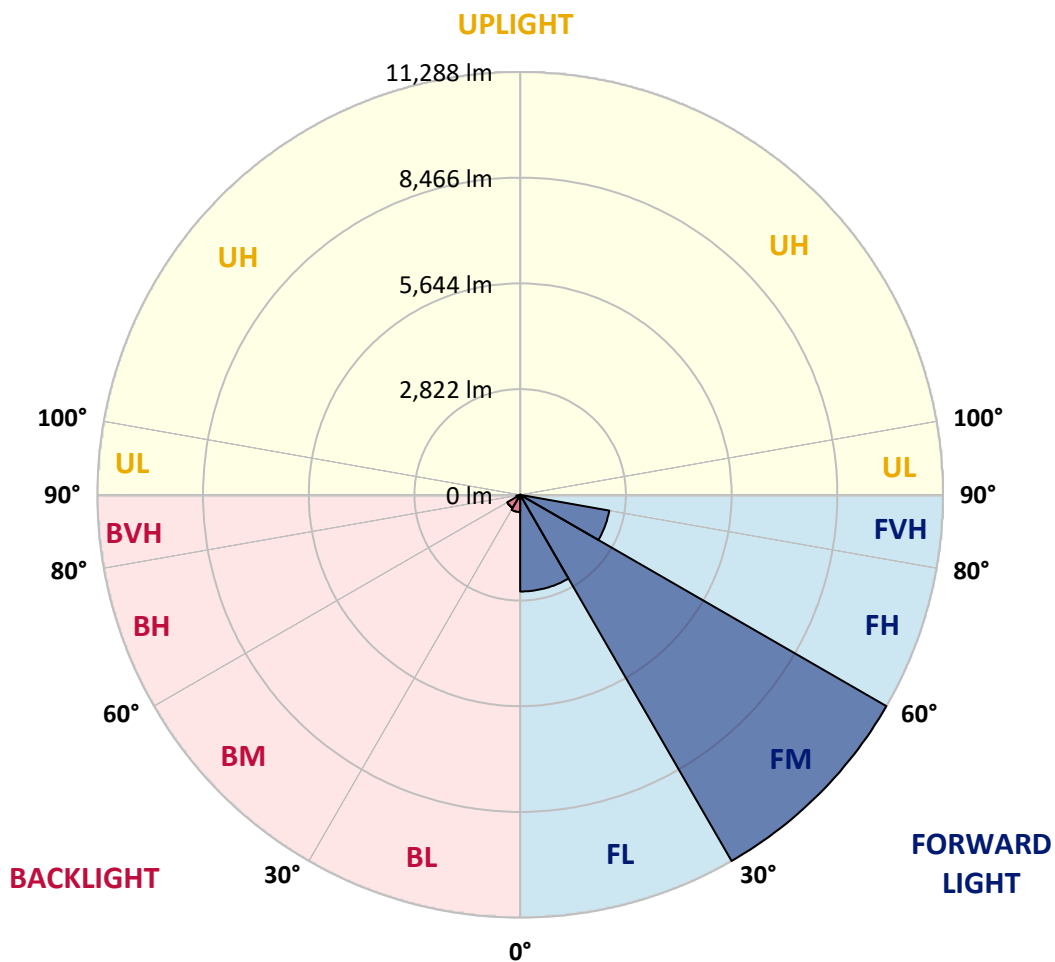
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2581.1	14.9			
FM	(30°-60°)	11287.6	65.3			
FH	(60°-80°)	2414.0	14.0			G2/5000
FVH	(80°-90°)	25.2	0.1			G1/100
BL	(0°-30°)	460.5	2.7	B1/500		
BM	(30°-60°)	400.4	2.3	B1/1000		
BH	(60°-80°)	103.4	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°	4862.2	4862.2	4862.2	4862.2	4862.2	4862.2	4862.2	4862.2	4862.2	4862.2	4862.2
2.5°	5753.1	5691.9	5673.6	5661.4	5605.3	5535.0	5439.1	5394.3	5302.6	5154.7	4973.3
5°	6280.1	6268.9	6228.1	6205.7	6145.5	6045.6	5892.7	5819.4	5673.6	5424.9	5099.7
7.5°	6049.7	6120.1	6176.1	6269.9	6388.1	6384.1	6255.6	6179.2	6016.1	5687.9	5240.4
10°	5159.8	5216.9	5308.7	5521.7	5955.9	6339.2	6490.1	6435.0	6304.6	5929.4	5375.9
12.5°	4985.5	4979.4	4995.7	5057.9	5285.2	5831.6	6450.3	6561.4	6534.9	6150.6	5504.4
15°	5078.3	5071.2	5069.1	5090.5	5145.6	5375.9	6151.7	6470.7	6675.6	6355.5	5613.4
17.5°	5338.2	5307.6	5291.3	5274.0	5257.7	5314.8	5792.8	6216.9	6697.0	6534.9	5704.2
20°	5783.7	5732.7	5672.6	5574.7	5483.0	5454.4	5642.0	5955.9	6620.5	6671.5	5763.3
22.5°	6343.3	6278.0	6174.1	5995.7	5809.2	5701.1	5716.4	5873.4	6506.4	6820.3	5790.8
25°	6972.2	6888.6	6750.0	6502.3	6228.1	6036.5	5936.6	5991.6	6454.4	6994.6	5822.4
27.5°	7646.0	7553.2	7371.8	7034.4	6723.5	6464.6	6260.7	6253.6	6543.1	7223.0	5873.4
30°	8313.7	8299.4	8062.9	7706.1	7294.3	6979.3	6685.8	6648.1	6790.8	7539.0	5974.3
32.5°	9204.5	9097.5	8808.0	8441.1	7966.1	7587.9	7240.3	7152.6	7171.0	7906.9	6130.2
35°	10327.8	10210.6	9802.9	9296.3	8765.2	8318.7	7934.5	7815.2	7770.3	8509.4	6393.2
37.5°	11053.6	11051.6	10795.7	10279.9	9710.1	9217.8	8799.9	8660.2	8569.5	9237.2	6801.0
40°	11073.0	11120.9	11154.5	11149.4	10743.7	10290.1	9919.1	9746.8	9535.8	10209.6	7328.0
42.5°	10478.7	10602.0	10898.7	11402.2	11642.8	11462.4	11149.4	10980.2	10666.3	11250.3	7970.1
45°	9675.5	9761.1	10279.9	11207.5	12130.0	12624.4	12385.9	12083.1	11669.3	12335.9	8546.1
47.5°	9315.7	9330.9	9666.3	10684.6	12166.7	13576.4	13721.2	13228.9	12580.6	13210.5	8996.6
50°	8240.3	8267.8	8730.6	9778.4	11736.6	14026.0	15062.6	14595.8	13574.4	13884.3	9160.7
52.5°	6210.8	6249.5	6836.6	8289.2	10554.1	13834.3	16022.8	15909.7	14663.1	14213.5	9169.9
55°	3664.5	3715.5	4276.1	5579.8	8301.4	12615.2	16094.2	16510.1	15522.3	14408.2	9155.6
57.5°	1711.5	1747.1	2068.2	2874.5	5162.9	9970.1	15019.8	16098.3	15996.3	14511.2	9256.5
60°	909.2	919.4	996.9	1244.6	2333.2	6321.9	12923.1	14536.7	15564.1	14653.9	9379.9
62.5°	695.2	698.2	694.2	723.7	980.6	2806.2	9768.2	11950.6	13824.1	14546.9	9243.3
65°	602.4	607.5	579.0	571.8	628.9	1001.0	5803.0	8518.5	10863.0	13102.5	8312.6
67.5°	540.2	542.3	507.6	478.1	488.3	541.3	2289.4	4663.4	7190.3	9604.1	6025.3
70°	497.4	495.4	457.7	410.8	397.5	370.0	727.8	1709.4	3436.2	4870.4	2802.1
72.5°	440.4	441.4	423.0	361.9	330.3	258.9	337.4	498.5	1025.4	1327.2	656.4
75°	390.4	385.3	362.9	324.1	272.2	170.2	167.2	222.2	316.0	314.0	141.7
77.5°	282.4	277.3	284.4	266.0	209.0	110.1	83.6	107.0	128.4	124.4	39.8
80°	206.9	203.9	183.5	221.2	184.5	75.4	52.0	57.1	66.3	56.1	12.2
82.5°	141.7	140.7	129.5	122.3	105.0	45.9	32.6	35.7	42.8	31.6	6.1
85°	22.4	25.5	93.8	74.4	62.2	20.4	22.4	24.5	28.5	17.3	2.0
87.5°	0.0	0.0	43.8	38.7	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°	4862.2	4862.2	4862.2	4862.2	4862.2	4862.2	4862.2	4862.2	4862.2	4862.2	4862.2
2.5°	4880.5	4778.6	4590.0	4395.3	4214.9	3999.8	3852.0	3740.9	3612.5	3577.8	3653.3
5°	4914.2	4721.5	4315.8	3874.5	3459.6	2999.9	2648.2	2369.9	2118.2	2032.5	2110.0
7.5°	4967.2	4680.8	4019.2	3292.4	2570.7	1853.1	1361.8	1038.7	832.8	771.6	804.3
10°	5020.2	4621.6	3675.7	2603.4	1616.7	902.1	587.1	468.9	425.1	415.9	421.0
12.5°	5064.0	4542.1	3256.8	1851.1	864.4	483.2	384.3	364.9	358.8	358.8	360.8
15°	5090.5	4421.9	2760.3	1177.3	497.4	364.9	335.4	329.2	329.2	330.3	332.3
17.5°	5087.5	4269.0	2217.0	712.5	372.1	323.1	305.8	300.7	299.7	301.7	302.7
20°	5049.8	4069.2	1671.7	469.9	324.1	294.6	277.3	268.1	267.1	269.1	271.1
22.5°	4978.4	3822.5	1195.7	361.9	292.5	267.1	245.7	237.5	237.5	239.5	241.6
25°	4891.8	3520.8	817.5	306.8	264.0	237.5	217.1	210.0	212.0	217.1	218.1
27.5°	4783.7	3181.3	555.5	263.0	229.3	207.9	192.7	187.6	192.7	199.8	201.8
30°	4691.0	2827.6	396.5	227.3	194.7	179.4	170.2	170.2	177.4	190.6	193.7
32.5°	4619.6	2485.1	305.8	200.8	169.2	156.0	150.9	156.0	167.2	180.4	183.5
35°	4610.4	2202.8	258.9	179.4	150.9	137.6	135.6	144.7	156.0	166.2	168.2
37.5°	4680.8	1941.8	233.4	162.1	134.6	122.3	120.3	131.5	142.7	154.9	158.0
40°	4814.3	1736.9	215.1	145.8	121.3	108.0	104.0	112.1	127.4	143.7	147.8
42.5°	4987.6	1567.7	194.7	129.5	108.0	89.7	84.6	93.8	110.1	127.4	132.5
45°	5152.7	1422.0	172.3	111.1	90.7	69.3	67.3	79.5	87.7	105.0	109.1
47.5°	5243.4	1293.5	152.9	90.7	70.3	56.1	56.1	59.1	67.3	87.7	91.7
50°	5212.9	1190.6	132.5	67.3	48.9	42.8	42.8	41.8	54.0	70.3	73.4
52.5°	5151.7	1131.5	114.2	52.0	33.6	30.6	27.5	30.6	37.7	44.9	45.9
55°	5142.5	1121.3	95.8	41.8	23.4	20.4	15.3	15.3	15.3	14.3	12.2
57.5°	5213.9	1137.6	80.5	33.6	17.3	13.3	8.2	0.0	0.0	0.0	0.0
60°	5287.3	1154.9	69.3	23.4	12.2	7.1	1.0	0.0	0.0	0.0	0.0
62.5°	5164.9	1116.2	58.1	14.3	9.2	3.1	0.0	0.0	0.0	0.0	0.0
65°	4537.0	950.0	45.9	10.2	6.1	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	3227.2	636.1	30.6	6.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	1472.9	266.0	19.4	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	315.0	82.6	13.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	64.2	60.1	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	20.4	94.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	12.2	68.3	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)