

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: P300751

Luminaire Tested: **GLNA-AF-06-LED-E1-AFL-7030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300751
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-7030-600-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(6) 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: 16871.2 lumens
Efficiency: N/A
Efficacy: 87.4 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): 193
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

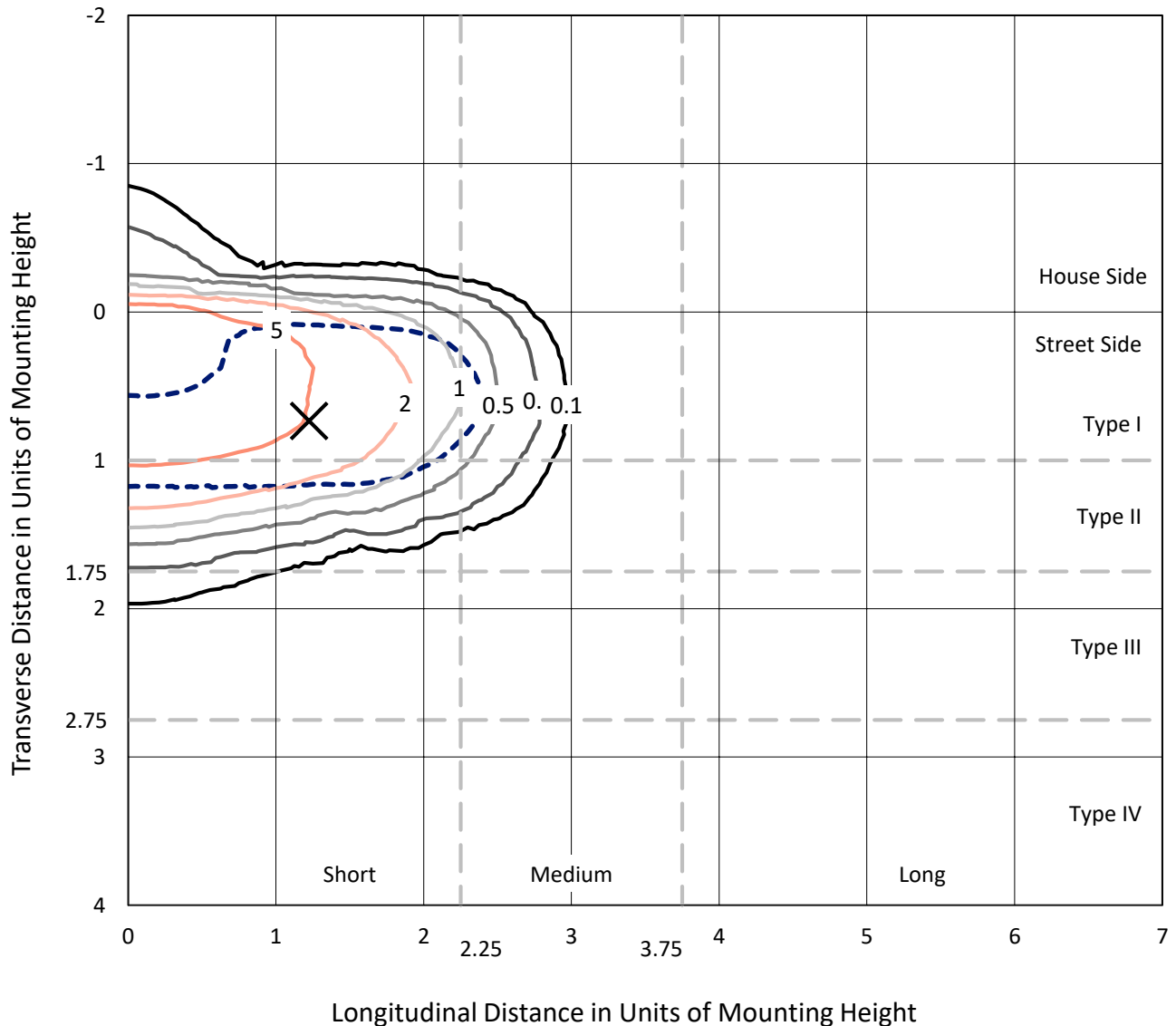


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

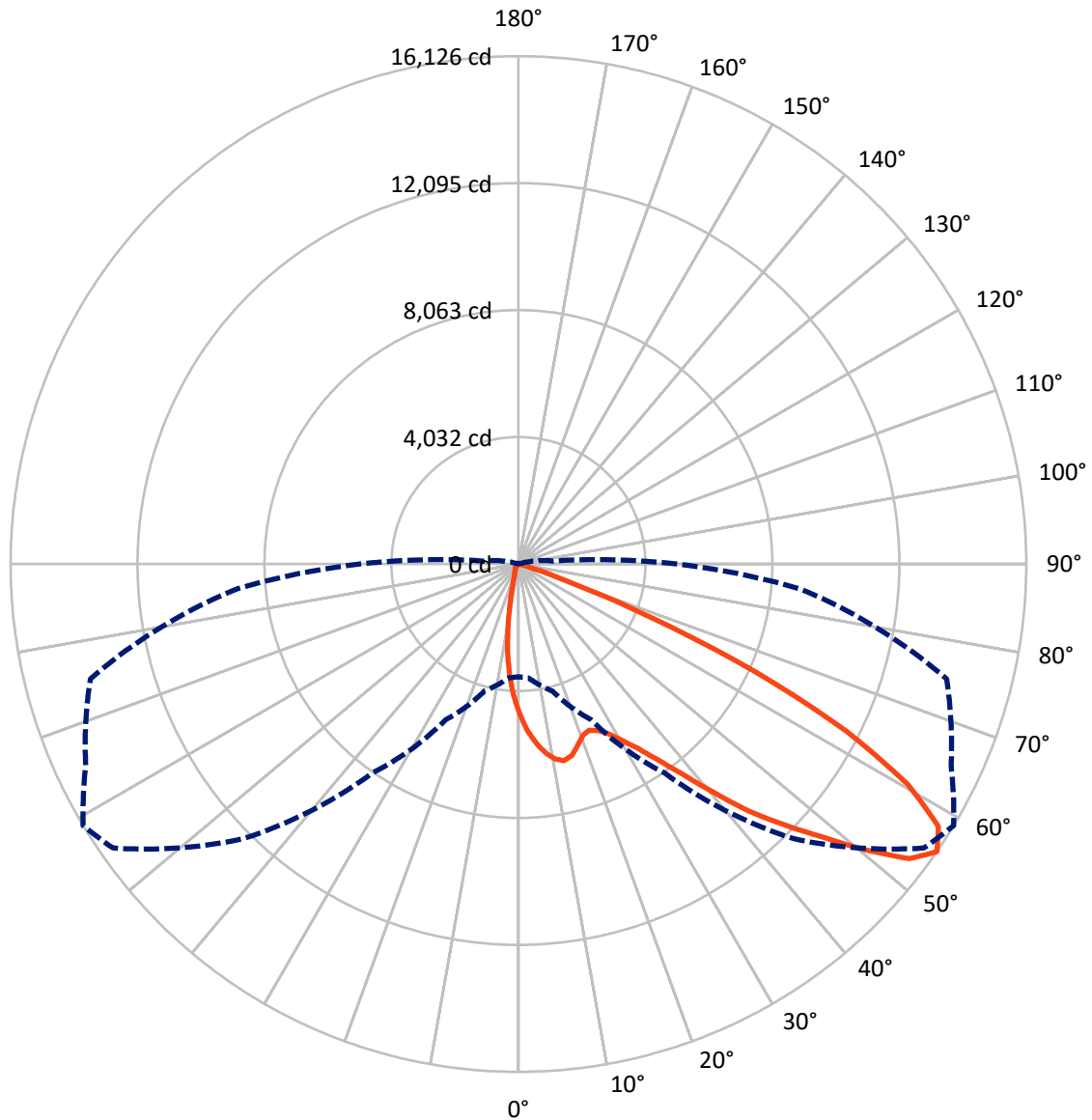


Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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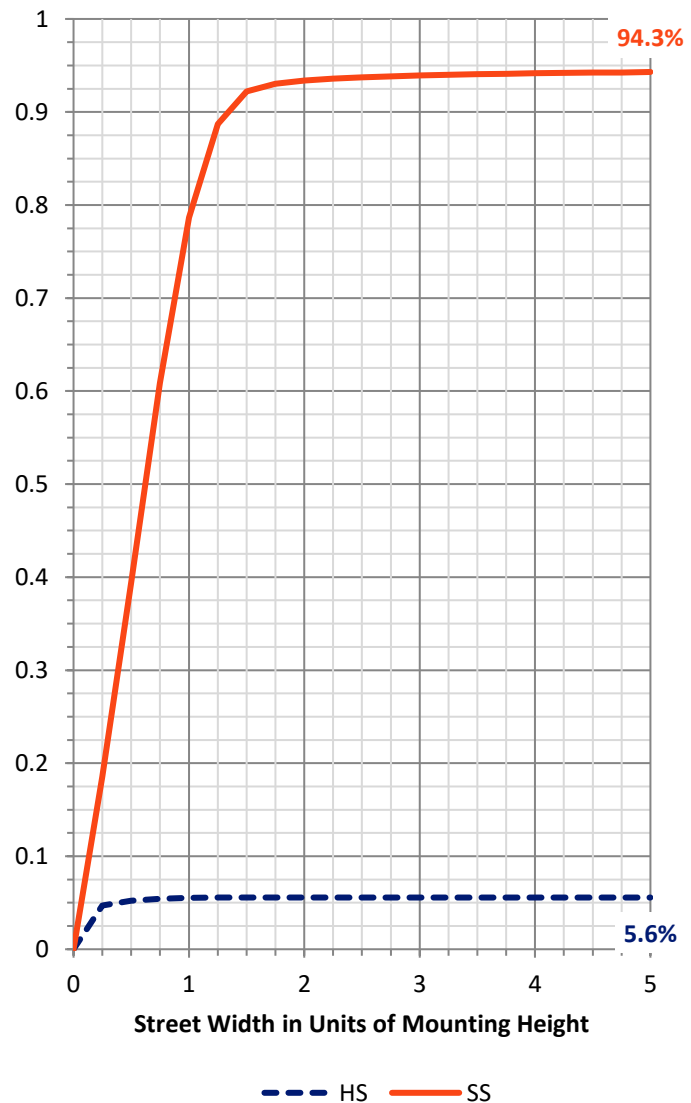
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	942.4	0.0	942.4
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	15928.8	0.0	15928.8
	% Fixture	94.4	0.0	94.4
Total	Lumens	16871.2	0.0	16871.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	397.8	2.4
10°-20°	952.4	5.6
20°-30°	1620.7	9.6
30°-40°	2787.2	16.5
40°-50°	4303.1	25.5
50°-60°	4326.0	25.6
60°-70°	2218.4	13.1
70°-80°	240.4	1.4
80°-90°	25.1	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°	16871.2	100.0
0°-180°	16871.2	100.0

Coefficient of Utilization



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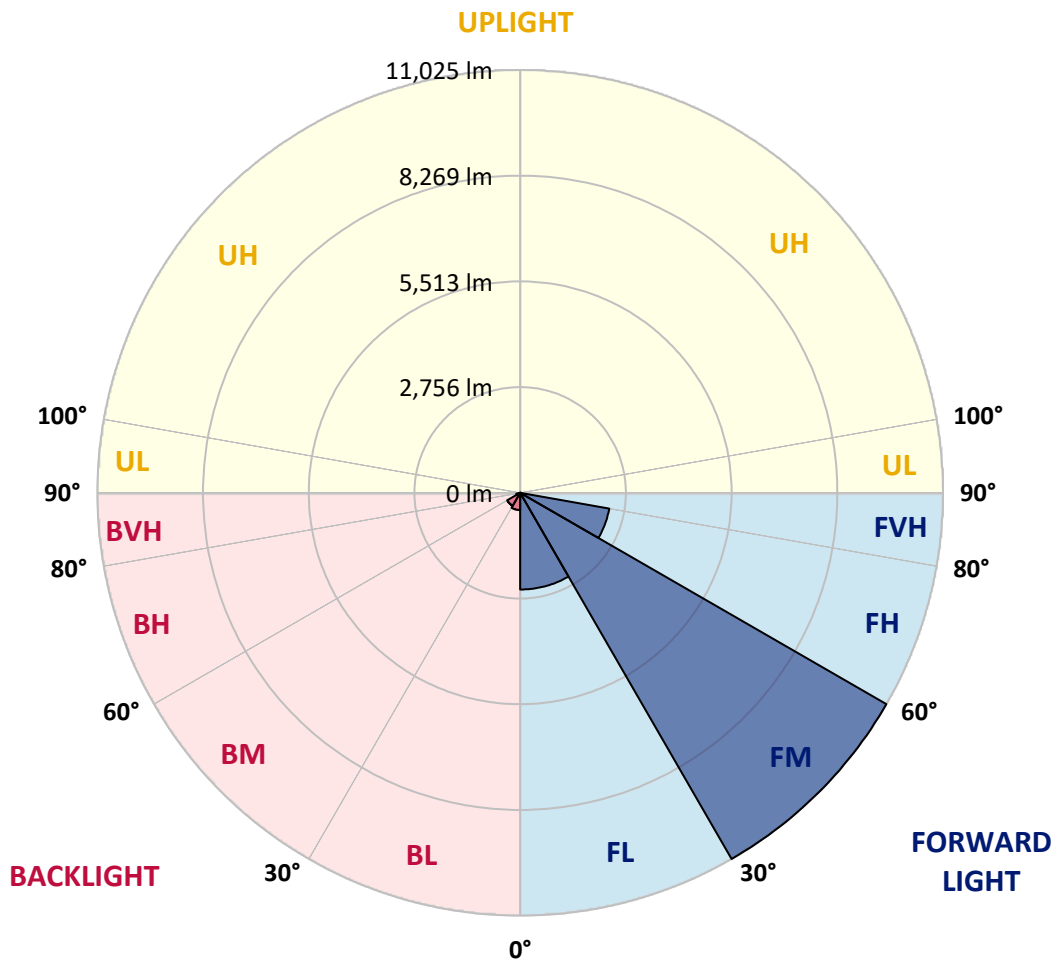
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2521.1	14.9			
FM	(30°-60°)	11025.2	65.3			
FH	(60°-80°)	2357.9	14.0			G2/5000
FVH	(80°-90°)	24.6	0.1			G1/100
BL	(0°-30°)	449.8	2.7	B1/500		
BM	(30°-60°)	391.1	2.3	B1/1000		
BH	(60°-80°)	101.0	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°	4749.2	4749.2	4749.2	4749.2	4749.2	4749.2	4749.2	4749.2	4749.2	4749.2	4749.2
2.5°	5619.4	5559.6	5541.7	5529.7	5475.0	5406.3	5312.7	5268.9	5179.3	5034.9	4857.7
5°	6134.1	6123.1	6083.3	6061.4	6002.7	5905.1	5755.8	5684.1	5541.7	5298.8	4981.2
7.5°	5909.1	5977.8	6032.5	6124.1	6239.6	6235.7	6110.2	6035.5	5876.2	5555.6	5118.6
10°	5039.9	5095.7	5185.3	5393.3	5817.5	6191.8	6339.2	6285.4	6158.0	5791.6	5251.0
12.5°	4869.6	4863.7	4879.6	4940.3	5162.4	5696.0	6300.4	6408.9	6383.0	6007.7	5376.4
15°	4960.2	4953.3	4951.3	4972.2	5026.0	5251.0	6008.6	6320.3	6520.4	6207.8	5483.0
17.5°	5214.1	5184.3	5168.3	5151.4	5135.5	5191.2	5658.2	6072.4	6541.3	6383.0	5571.6
20°	5649.2	5599.4	5540.7	5445.1	5355.5	5327.6	5510.8	5817.5	6466.6	6516.4	5629.3
22.5°	6195.8	6132.1	6030.6	5856.3	5674.1	5568.6	5583.5	5736.8	6355.1	6661.8	5656.2
25°	6810.1	6728.5	6593.1	6351.1	6083.3	5896.1	5798.6	5852.3	6304.3	6832.0	5687.1
27.5°	7468.2	7377.6	7200.4	6870.9	6567.2	6314.3	6115.2	6108.2	6391.0	7055.1	5736.8
30°	8120.4	8106.4	7875.5	7527.0	7124.8	6817.1	6530.4	6493.5	6632.9	7363.7	5835.4
32.5°	8990.6	8886.0	8603.3	8244.8	7780.9	7411.5	7072.0	6986.4	7004.3	7723.1	5987.7
35°	10087.8	9973.3	9575.0	9080.2	8561.5	8125.4	7750.0	7633.5	7589.7	8311.5	6244.6
37.5°	10796.6	10794.7	10544.8	10041.0	9484.4	9003.5	8595.3	8458.9	8370.3	9022.4	6642.9
40°	10815.6	10862.4	10895.2	10890.2	10494.0	10050.9	9688.5	9520.2	9314.1	9972.3	7157.6
42.5°	10235.1	10355.6	10645.3	11137.2	11372.1	11195.9	10890.2	10725.0	10418.3	10988.8	7784.9
45°	9450.6	9534.2	10041.0	10947.0	11848.0	12330.9	12097.9	11802.2	11398.0	12049.2	8347.4
47.5°	9099.1	9114.0	9441.6	10436.2	11883.9	13260.8	13402.2	12921.3	12288.1	12903.4	8787.5
50°	8048.7	8075.6	8527.6	9551.1	11463.7	13699.9	14712.5	14256.5	13258.8	13561.5	8947.8
52.5°	6066.4	6104.2	6677.7	8096.5	10308.8	13512.7	15650.4	15539.8	14322.2	13883.1	8956.7
55°	3579.3	3629.1	4176.7	5450.1	8108.4	12322.0	15720.1	16126.3	15161.5	14073.3	8942.8
57.5°	1671.7	1706.5	2020.1	2807.7	5042.9	9738.3	14670.7	15724.0	15624.5	14173.8	9041.3
60°	888.1	898.1	973.7	1215.7	2279.0	6174.9	12622.6	14198.7	15202.3	14313.2	9161.8
62.5°	679.0	682.0	678.0	706.9	957.8	2741.0	9541.2	11672.8	13502.8	14208.7	9028.4
65°	588.4	593.4	565.5	558.6	614.3	977.7	5668.1	8320.5	10610.5	12797.9	8119.4
67.5°	527.7	529.7	495.8	467.0	476.9	528.7	2236.2	4555.0	7023.2	9380.9	5885.2
70°	485.9	483.9	447.0	401.2	388.3	361.4	710.9	1669.7	3356.3	4757.1	2737.0
72.5°	430.1	431.1	413.2	353.4	322.6	252.9	329.6	486.9	1001.6	1296.3	641.2
75°	381.3	376.3	354.4	316.6	265.8	166.3	163.3	217.0	308.6	306.7	138.4
77.5°	275.8	270.8	277.8	259.9	204.1	107.5	81.6	104.5	125.4	121.5	38.8
80°	202.1	199.1	179.2	216.1	180.2	73.7	50.8	55.8	64.7	54.8	11.9
82.5°	138.4	137.4	126.4	119.5	102.6	44.8	31.9	34.8	41.8	30.9	6.0
85°	21.9	24.9	91.6	72.7	60.7	19.9	21.9	23.9	27.9	16.9	2.0
87.5°	0.0	0.0	42.8	37.8	11.9	8.0	12.9	13.9	13.9	9.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4749.2	4749.2	4749.2	4749.2	4749.2	4749.2	4749.2	4749.2	4749.2	4749.2	4749.2
2.5°	4767.1	4667.5	4483.3	4293.2	4116.9	3906.9	3762.5	3654.0	3528.5	3494.7	3568.3
5°	4799.9	4611.8	4215.5	3784.4	3379.2	2930.1	2586.7	2314.8	2068.9	1985.3	2061.0
7.5°	4851.7	4571.9	3925.8	3215.9	2511.0	1810.1	1330.2	1014.6	813.4	753.7	785.6
10°	4903.5	4514.2	3590.3	2542.8	1579.1	881.1	573.5	458.0	415.2	406.2	411.2
12.5°	4946.3	4436.5	3181.0	1808.1	844.3	471.9	375.4	356.4	350.5	350.5	352.5
15°	4972.2	4319.1	2696.2	1150.0	485.9	356.4	327.6	321.6	321.6	322.6	324.6
17.5°	4969.2	4169.7	2165.5	695.9	363.4	315.6	298.7	293.7	292.7	294.7	295.7
20°	4932.4	3974.6	1632.8	459.0	316.6	287.7	270.8	261.9	260.9	262.8	264.8
22.5°	4862.7	3733.6	1167.9	353.4	285.7	260.9	239.9	232.0	232.0	234.0	236.0
25°	4778.0	3438.9	798.5	299.7	257.9	232.0	212.1	205.1	207.1	212.1	213.1
27.5°	4672.5	3107.4	542.6	256.9	224.0	203.1	188.2	183.2	188.2	195.1	197.1
30°	4581.9	2761.9	387.3	222.0	190.2	175.2	166.3	166.3	173.2	186.2	189.2
32.5°	4512.2	2427.4	298.7	196.1	165.3	152.3	147.4	152.3	163.3	176.2	179.2
35°	4503.2	2151.6	252.9	175.2	147.4	134.4	132.4	141.4	152.3	162.3	164.3
37.5°	4571.9	1896.7	228.0	158.3	131.4	119.5	117.5	128.4	139.4	151.3	154.3
40°	4702.4	1696.6	210.1	142.4	118.5	105.5	101.6	109.5	124.5	140.4	144.4
42.5°	4871.6	1531.3	190.2	126.4	105.5	87.6	82.6	91.6	107.5	124.5	129.4
45°	5032.9	1388.9	168.3	108.5	88.6	67.7	65.7	77.7	85.6	102.6	106.5
47.5°	5121.5	1263.5	149.3	88.6	68.7	54.8	54.8	57.7	65.7	85.6	89.6
50°	5091.7	1162.9	129.4	65.7	47.8	41.8	41.8	40.8	52.8	68.7	71.7
52.5°	5031.9	1105.2	111.5	50.8	32.9	29.9	26.9	29.9	36.8	43.8	44.8
55°	5023.0	1095.2	93.6	40.8	22.9	19.9	14.9	14.9	14.9	13.9	11.9
57.5°	5092.7	1111.1	78.7	32.9	16.9	12.9	8.0	0.0	0.0	0.0	0.0
60°	5164.3	1128.1	67.7	22.9	11.9	7.0	1.0	0.0	0.0	0.0	0.0
62.5°	5044.9	1090.2	56.8	13.9	9.0	3.0	0.0	0.0	0.0	0.0	0.0
65°	4431.6	927.9	44.8	10.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	3152.2	621.3	29.9	6.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	1438.7	259.9	18.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	307.7	80.6	12.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	62.7	58.7	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	19.9	92.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	11.9	66.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.0	10.0	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)