

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: P300625

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300625
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-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(5) 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: 21401.2 lumens
Efficiency: N/A
Efficacy: 76.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

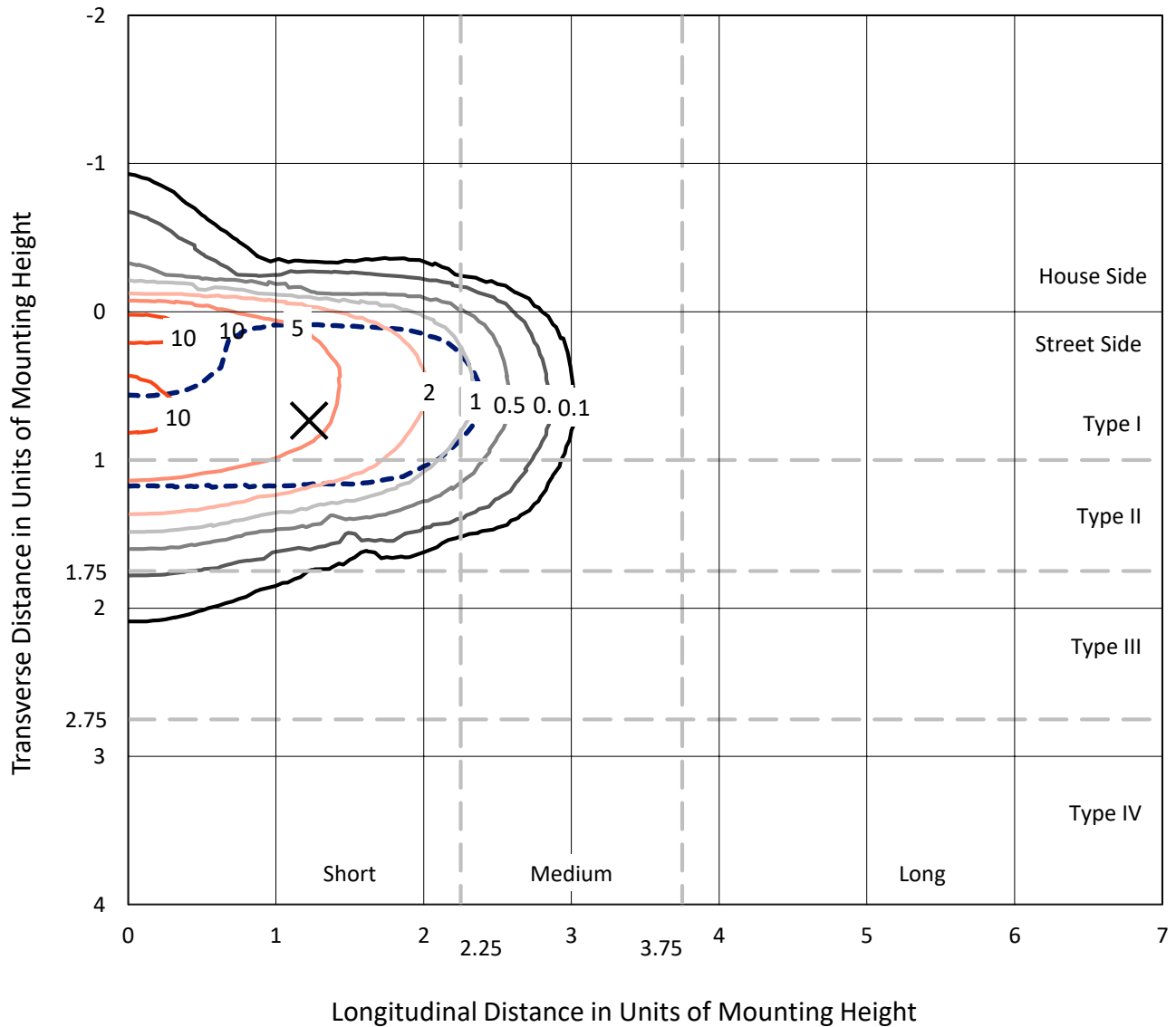
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

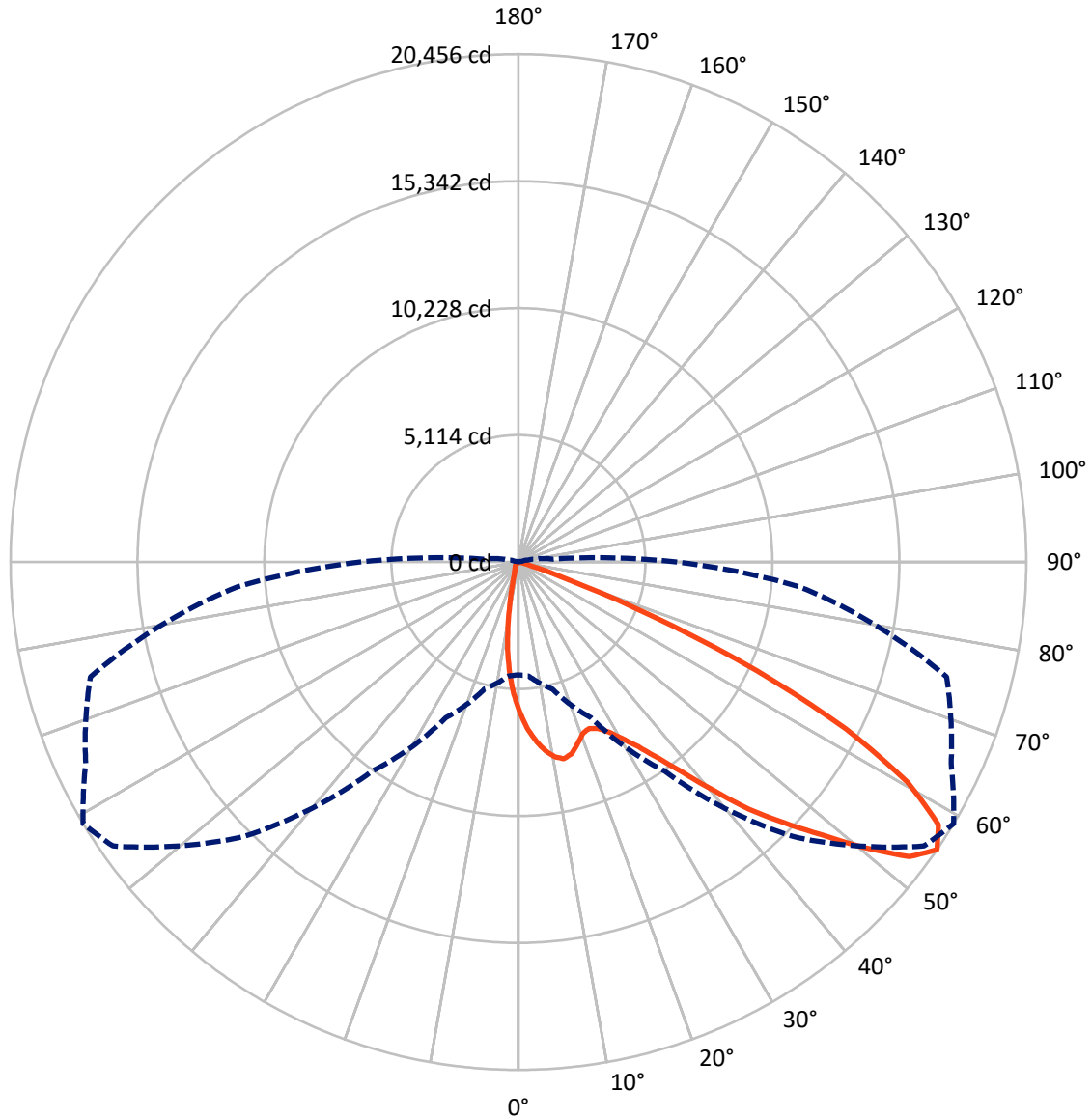
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 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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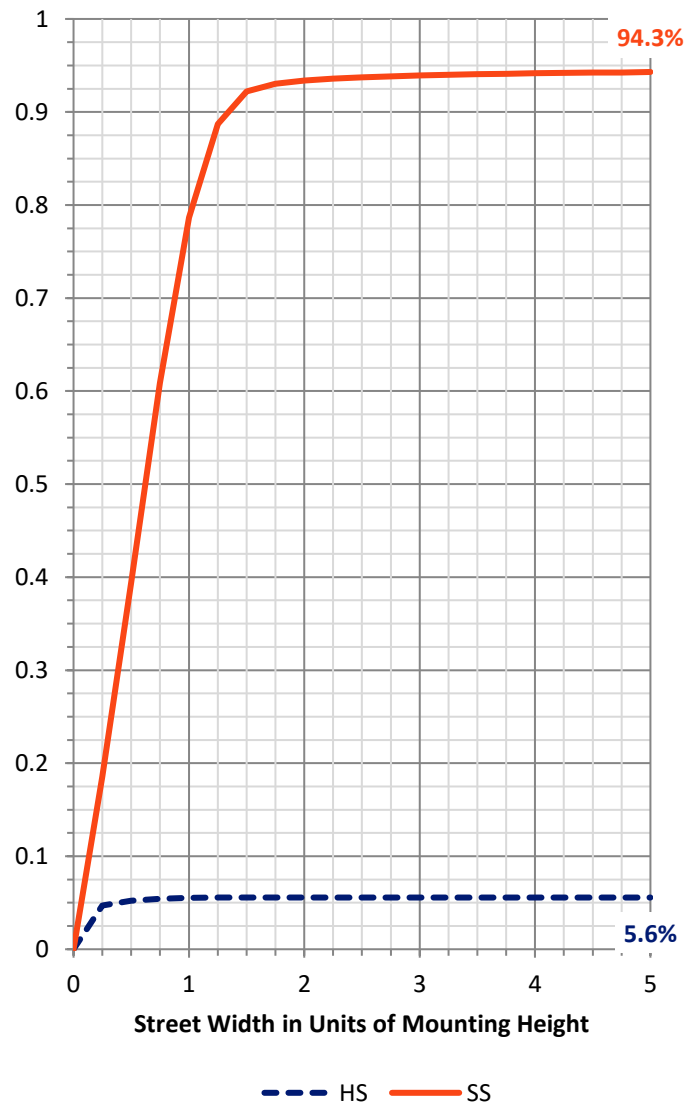
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1195.4	0.0	1195.4
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	20205.8	0.0	20205.8
	% Fixture	94.4	0.0	94.4
Total	Lumens	21401.2	0.0	21401.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	504.6	2.4
10°-20°	1208.2	5.6
20°-30°	2055.8	9.6
30°-40°	3535.6	16.5
40°-50°	5458.5	25.5
50°-60°	5487.6	25.6
60°-70°	2814.1	13.1
70°-80°	305.0	1.4
80°-90°	31.9	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°	21401.2	100.0
0°-180°	21401.2	100.0

Coefficient of Utilization



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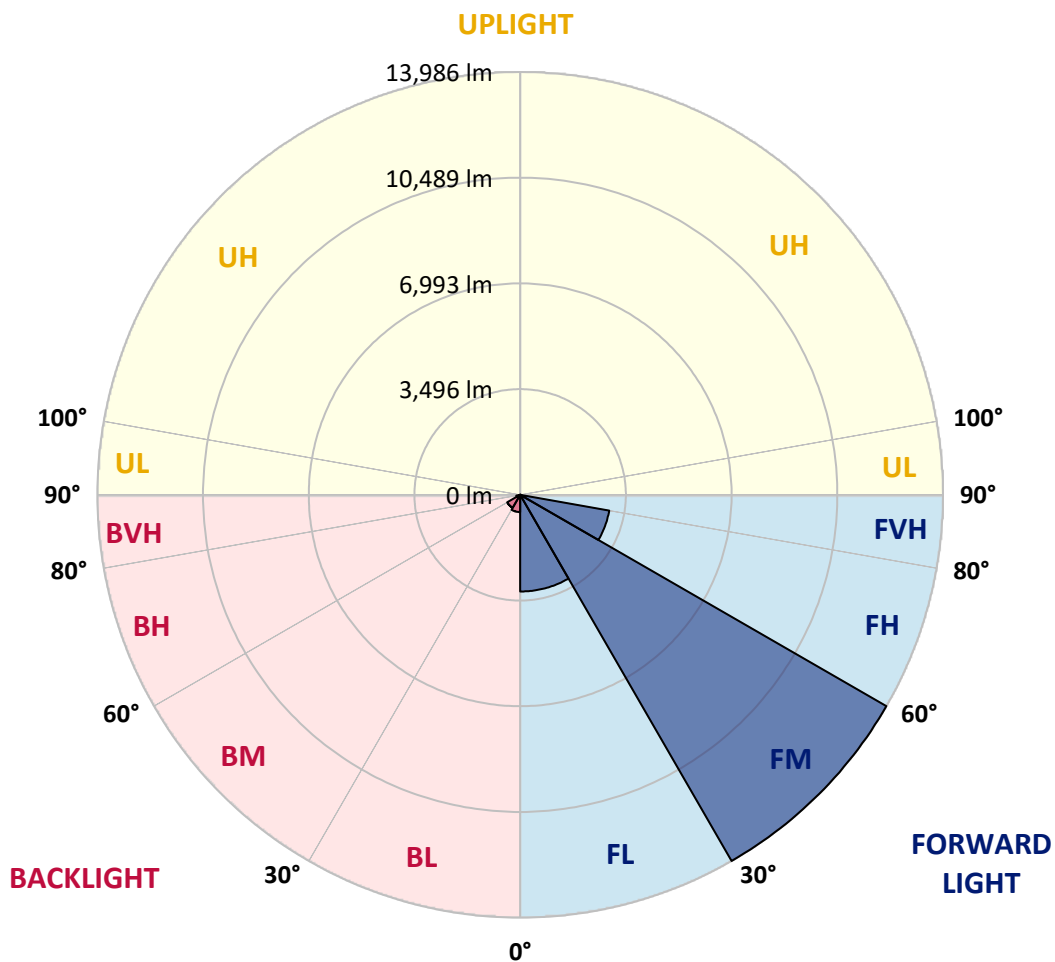
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3198.0	14.9			
FM	(30°-60°)	13985.6	65.3			
FH	(60°-80°)	2991.0	14.0			G2/5000
FVH	(80°-90°)	31.2	0.1			G1/100
BL	(0°-30°)	570.6	2.7	B2/1000		
BM	(30°-60°)	496.1	2.3	B1/1000		
BH	(60°-80°)	128.1	0.6	B1/500		G1/500
BVH	(80°-90°)	0.7	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°	6024.4	6024.4	6024.4	6024.4	6024.4	6024.4	6024.4	6024.4	6024.4	6024.4	6024.4
2.5°	7128.2	7052.4	7029.7	7014.5	6945.1	6857.9	6739.2	6683.6	6570.0	6386.8	6162.0
5°	7781.1	7767.3	7716.7	7689.0	7614.4	7490.7	7301.2	7210.3	7029.7	6721.5	6318.6
7.5°	7495.7	7582.9	7652.3	7768.5	7915.0	7910.0	7750.8	7656.1	7454.0	7047.4	6492.9
10°	6393.1	6463.9	6577.5	6841.5	7379.5	7854.4	8041.3	7973.1	7811.5	7346.7	6660.9
12.5°	6177.2	6169.6	6189.8	6266.8	6548.5	7225.4	7992.1	8129.7	8096.9	7620.8	6820.0
15°	6292.1	6283.3	6280.7	6307.3	6375.5	6660.9	7622.0	8017.3	8271.2	7874.6	6955.2
17.5°	6614.2	6576.3	6556.1	6534.6	6514.4	6585.1	7177.4	7702.8	8297.7	8096.9	7067.6
20°	7166.1	7102.9	7028.4	6907.2	6793.5	6758.1	6990.5	7379.5	8203.0	8266.1	7140.8
22.5°	7859.5	7778.6	7649.8	7428.8	7197.7	7063.8	7082.7	7277.2	8061.5	8450.5	7174.9
25°	8638.7	8535.1	8363.4	8056.5	7716.7	7479.3	7355.5	7423.7	7997.1	8666.5	7214.1
27.5°	9473.5	9358.6	9133.8	8715.7	8330.5	8009.7	7757.2	7748.3	8107.0	8949.4	7277.2
30°	10300.8	10283.1	9990.1	9548.0	9037.8	8647.5	8283.8	8237.1	8413.9	9340.9	7402.3
32.5°	11404.6	11272.0	10913.3	10458.6	9870.1	9401.5	8970.9	8862.2	8885.0	9796.8	7595.5
35°	12796.4	12651.2	12146.0	11518.3	10860.3	10307.1	9830.9	9683.2	9627.6	10543.3	7921.3
37.5°	13695.6	13693.1	13376.1	12737.0	12031.0	11421.0	10903.2	10730.2	10617.8	11445.0	8426.5
40°	13719.6	13779.0	13820.7	13814.3	13311.7	12749.7	12289.9	12076.5	11815.1	12649.9	9079.5
42.5°	12983.3	13136.1	13503.7	14127.6	14425.6	14202.1	13814.3	13604.7	13215.7	13939.4	9875.1
45°	11988.1	12094.2	12737.0	13886.3	15029.3	15641.9	15346.3	14971.2	14458.5	15284.4	10588.7
47.5°	11542.3	11561.2	11976.7	13238.4	15074.8	16821.5	17000.8	16390.8	15587.6	16368.1	11147.0
50°	10209.8	10243.9	10817.3	12115.7	14541.8	17378.4	18662.9	18084.4	16818.9	17202.9	11350.3
52.5°	7695.3	7743.3	8470.7	10270.5	13076.8	17141.0	19852.6	19712.4	18167.8	17610.8	11361.7
55°	4540.4	4603.5	5298.2	6913.5	10285.6	15630.5	19941.0	20456.3	19232.5	17852.1	11344.0
57.5°	2120.5	2164.7	2562.6	3561.6	6396.9	12353.1	18609.8	19946.1	19819.8	17979.6	11469.0
60°	1126.6	1139.2	1235.2	1542.1	2890.9	7832.9	16011.9	18011.2	19284.3	18156.4	11621.8
62.5°	861.3	865.1	860.1	896.7	1215.0	3477.0	12103.0	14807.0	17128.4	18023.8	11452.6
65°	746.4	752.7	717.4	708.5	779.3	1240.2	7190.1	10554.6	13459.5	16234.2	10299.5
67.5°	669.4	671.9	629.0	592.3	605.0	670.6	2836.6	5778.1	8909.0	11899.7	7465.4
70°	616.3	613.8	567.1	509.0	492.6	458.5	901.8	2118.0	4257.5	6034.5	3471.9
72.5°	545.6	546.9	524.1	448.4	409.2	320.8	418.0	617.6	1270.5	1644.4	813.4
75°	483.7	477.4	449.6	401.6	337.2	210.9	207.1	275.3	391.5	389.0	175.6
77.5°	349.8	343.5	352.4	329.6	258.9	136.4	103.6	132.6	159.1	154.1	49.3
80°	256.4	252.6	227.3	274.1	228.6	93.5	64.4	70.7	82.1	69.5	15.2
82.5°	175.6	174.3	160.4	151.6	130.1	56.8	40.4	44.2	53.0	39.2	7.6
85°	27.8	31.6	116.2	92.2	77.0	25.3	27.8	30.3	35.4	21.5	2.5
87.5°	0.0	0.0	54.3	48.0	15.2	10.1	16.4	17.7	17.7	11.4	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°	6024.4	6024.4	6024.4	6024.4	6024.4	6024.4	6024.4	6024.4	6024.4	6024.4	6024.4
2.5°	6047.1	5920.8	5687.1	5445.9	5222.4	4955.9	4772.8	4635.1	4476.0	4433.0	4526.5
5°	6088.8	5850.1	5347.4	4800.5	4286.5	3716.9	3281.2	2936.4	2624.4	2518.4	2614.3
7.5°	6154.4	5799.6	4979.9	4079.4	3185.2	2296.1	1687.3	1287.0	1031.8	956.1	996.5
10°	6220.1	5726.3	4554.3	3225.6	2003.1	1117.7	727.5	581.0	526.7	515.3	521.6
12.5°	6274.4	5627.8	4035.2	2293.6	1071.0	598.6	476.1	452.1	444.6	444.6	447.1
15°	6307.3	5478.8	3420.1	1458.7	616.3	452.1	415.5	407.9	407.9	409.2	411.7
17.5°	6303.5	5289.3	2747.0	882.8	461.0	400.4	378.9	372.6	371.3	373.8	375.1
20°	6256.7	5041.8	2071.3	582.2	401.6	365.0	343.5	332.2	330.9	333.4	335.9
22.5°	6168.3	4736.1	1481.5	448.4	362.5	330.9	304.4	294.3	294.3	296.8	299.3
25°	6061.0	4362.3	1012.9	380.2	327.1	294.3	269.0	260.2	262.7	269.0	270.3
27.5°	5927.1	3941.7	688.3	325.8	284.2	257.6	238.7	232.4	238.7	247.5	250.1
30°	5812.2	3503.5	491.3	281.6	241.2	222.3	210.9	210.9	219.8	236.2	240.0
32.5°	5723.8	3079.1	378.9	248.8	209.7	193.2	186.9	193.2	207.1	223.5	227.3
35°	5712.4	2729.3	320.8	222.3	186.9	170.5	168.0	179.3	193.2	205.9	208.4
37.5°	5799.6	2406.0	289.2	200.8	166.7	151.6	149.0	162.9	176.8	192.0	195.8
40°	5965.0	2152.1	266.5	180.6	150.3	133.9	128.8	138.9	157.9	178.1	183.1
42.5°	6179.7	1942.4	241.2	160.4	133.9	111.1	104.8	116.2	136.4	157.9	164.2
45°	6384.3	1761.8	213.4	137.7	112.4	85.9	83.4	98.5	108.6	130.1	135.1
47.5°	6496.7	1602.7	189.4	112.4	87.1	69.5	69.5	73.3	83.4	108.6	113.7
50°	6458.8	1475.1	164.2	83.4	60.6	53.0	53.0	51.8	66.9	87.1	90.9
52.5°	6383.0	1401.9	141.5	64.4	41.7	37.9	34.1	37.9	46.7	55.6	56.8
55°	6371.7	1389.3	118.7	51.8	29.0	25.3	18.9	18.9	18.9	17.7	15.2
57.5°	6460.1	1409.5	99.8	41.7	21.5	16.4	10.1	0.0	0.0	0.0	0.0
60°	6551.0	1430.9	85.9	29.0	15.2	8.8	1.3	0.0	0.0	0.0	0.0
62.5°	6399.5	1383.0	72.0	17.7	11.4	3.8	0.0	0.0	0.0	0.0	0.0
65°	5621.5	1177.1	56.8	12.6	7.6	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	3998.6	788.1	37.9	7.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	1825.0	329.6	24.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	390.3	102.3	16.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	79.6	74.5	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	25.3	117.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	15.2	84.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.5	12.6	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)