

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: P383021

Luminaire Tested: **GLEON-SA3D-735-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383021
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3D-735-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18064.6 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

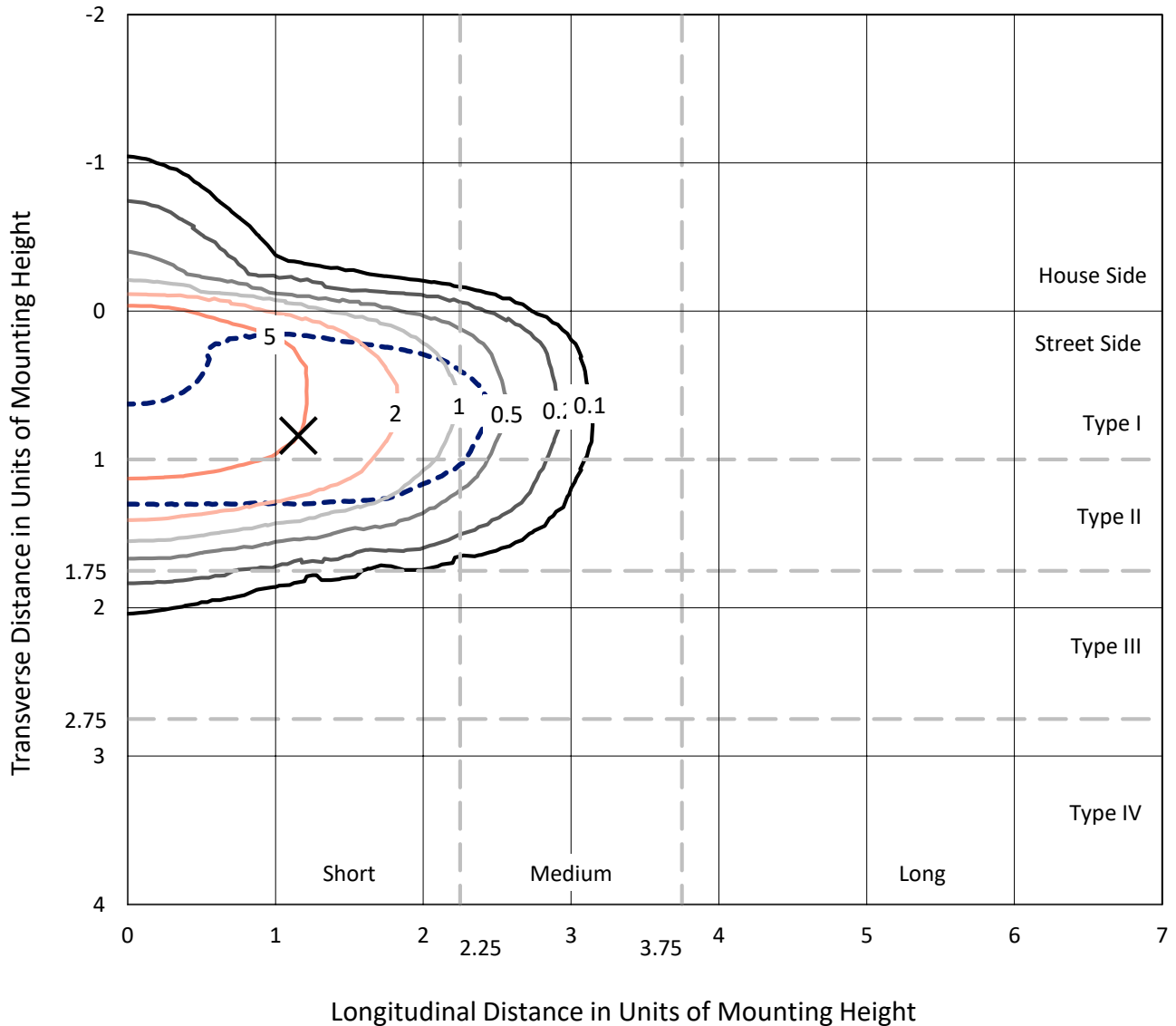
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

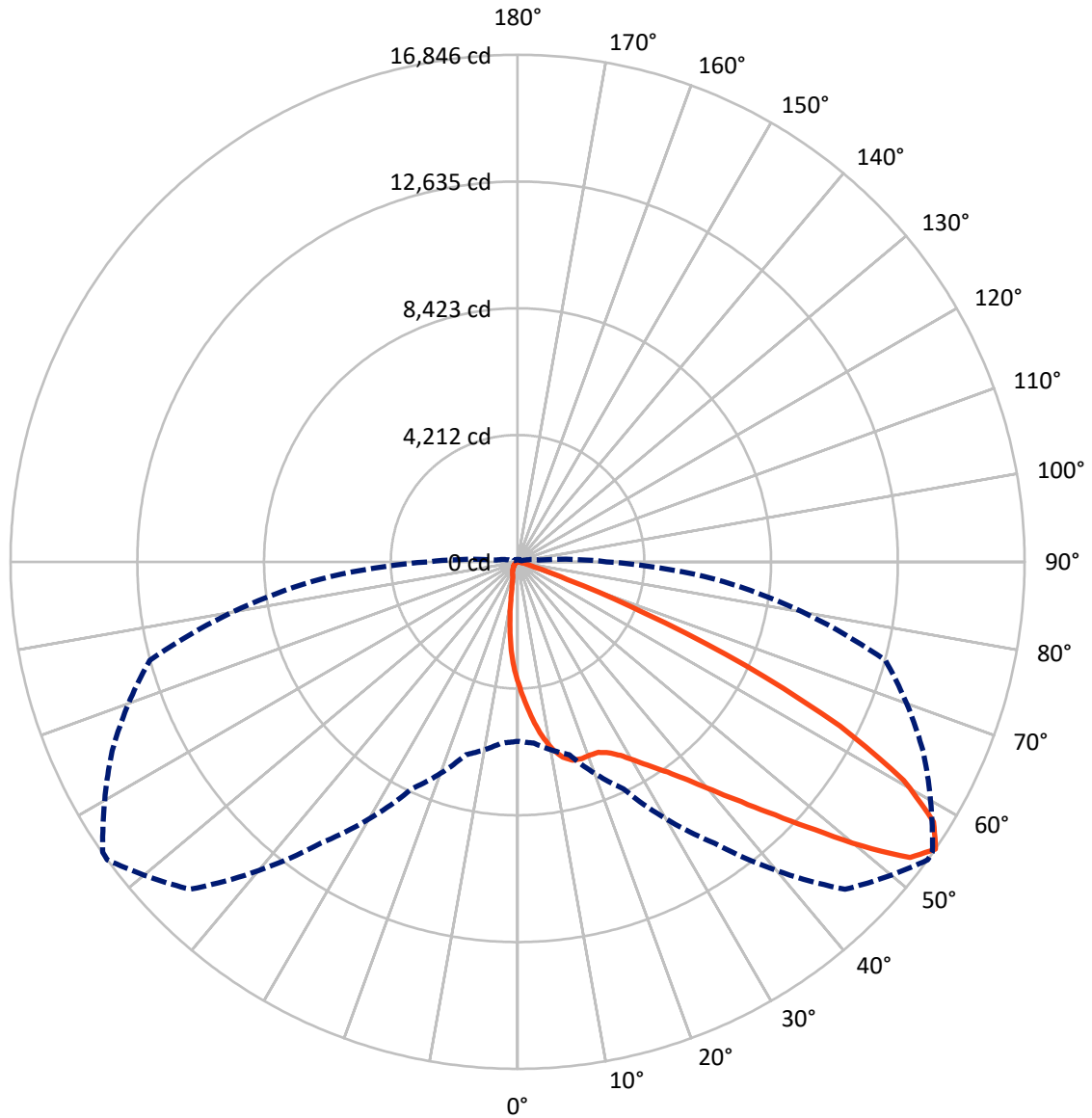
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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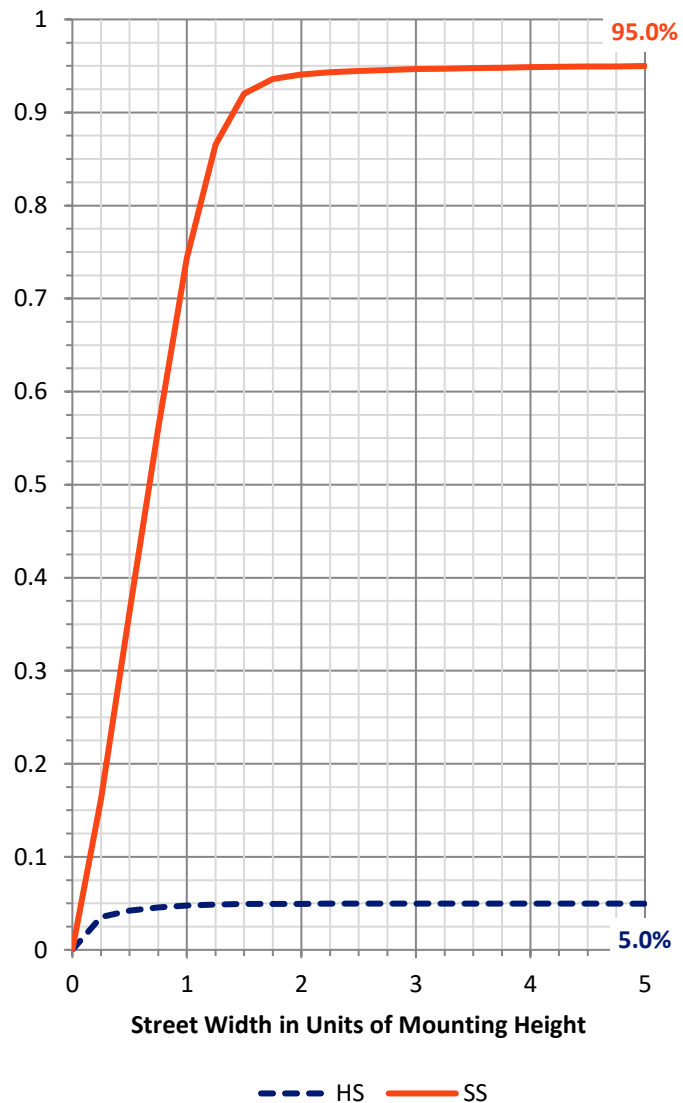
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	901.3	0.0	901.3
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	17163.3	0.0	17163.3
	% Fixture	95.0	0.0	95.0
Total	Lumens	18064.6	0.0	18064.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.6	2.1
10°-20°	1021.8	5.7
20°-30°	1744.5	9.7
30°-40°	2799.6	15.5
40°-50°	4473.8	24.8
50°-60°	4793.8	26.5
60°-70°	2461.3	13.6
70°-80°	372.8	2.1
80°-90°	24.3	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°	18064.6	100.0
0°-180°	18064.6	100.0

Coefficient of Utilization



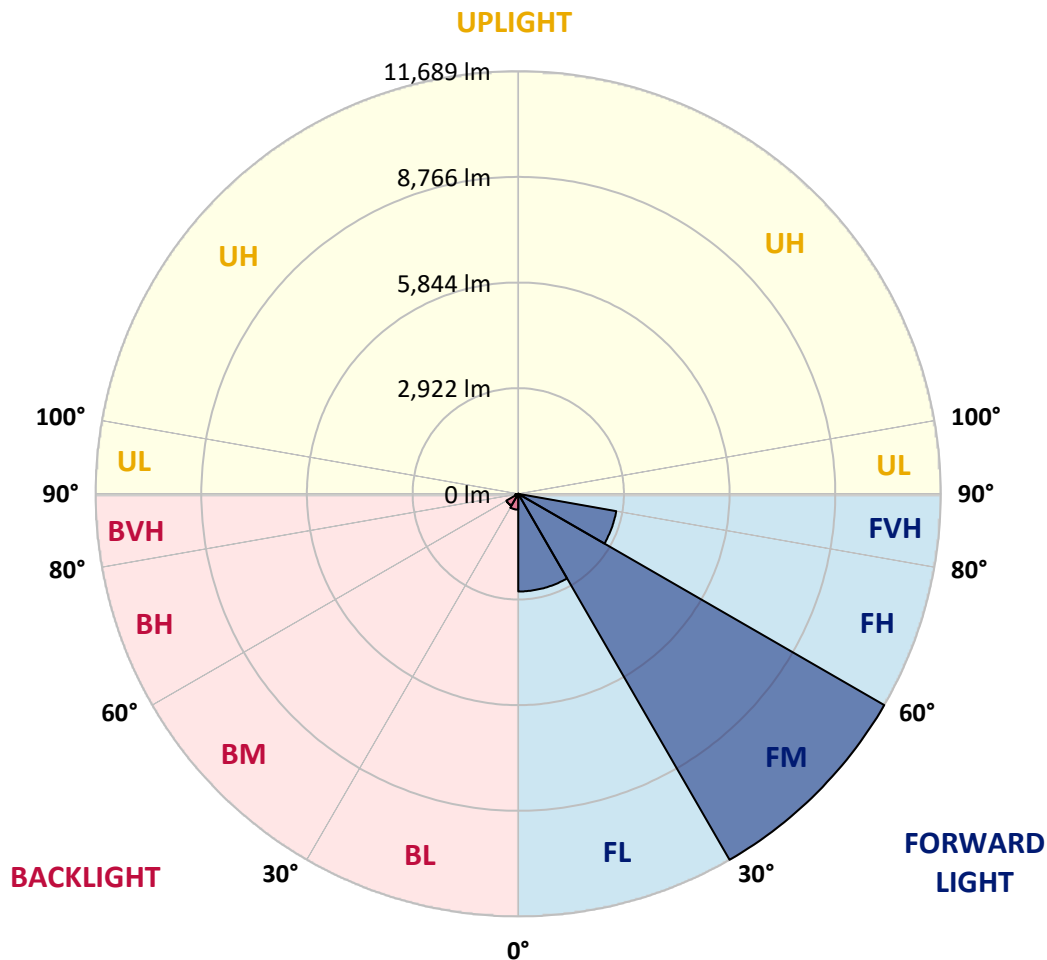
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2700.3	14.9			
FM (30°-60°)	11688.6	64.7			
FH (60°-80°)	2751.1	15.2			G2/5000
FVH (80°-90°)	23.3	0.1			G1/100
BL (0°-30°)	438.5	2.4	B1/500		
BM (30°-60°)	378.7	2.1	B1/1000		
BH (60°-80°)	83.1	0.5	B0/110		G0/110
BVH (80°-90°)	1.0	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°	54°	55°	65°	75°	85°
0°	4045.7	4045.7	4045.7	4045.7	4045.7	4045.7	4045.7	4045.7	4045.7	4045.7	4045.7
2.5°	5077.0	5001.4	5003.7	4969.4	4843.8	4745.5	4643.3	4619.2	4460.0	4293.0	4132.3
5°	5954.7	5899.3	5886.1	5819.8	5645.0	5460.1	5261.9	5215.9	4904.7	4563.0	4226.7
7.5°	6405.6	6406.4	6395.4	6371.3	6262.0	6082.6	5840.8	5792.5	5368.8	4856.3	4325.0
10°	6274.5	6304.2	6365.1	6445.4	6528.8	6506.3	6324.5	6280.8	5820.5	5166.7	4434.3
12.5°	5968.8	5972.6	6040.5	6172.3	6412.7	6659.2	6662.2	6647.4	6251.9	5491.3	4554.3
15°	5816.6	5831.5	5856.5	5941.4	6169.3	6564.0	6846.4	6867.5	6647.4	5836.1	4682.3
17.5°	5916.4	5937.6	5916.4	5926.6	6058.5	6413.4	6878.4	6932.2	6993.0	6177.1	4803.2
20°	6187.2	6206.7	6169.3	6127.9	6153.6	6369.7	6855.7	6928.3	7263.7	6479.8	4904.7
22.5°	6552.3	6560.1	6503.1	6435.2	6416.5	6517.9	6874.4	6949.3	7480.6	6753.5	4968.6
25°	6954.1	6961.1	6890.1	6812.0	6767.6	6809.0	7028.2	7084.3	7671.8	7014.9	5005.3
27.5°	7391.7	7398.0	7309.0	7213.1	7161.6	7163.1	7281.7	7341.8	7875.4	7312.9	5034.9
30°	7854.3	7851.2	7769.3	7635.9	7570.3	7568.8	7646.8	7707.6	8170.2	7695.1	5075.5
32.5°	8373.9	8367.6	8251.4	8086.0	8011.9	8022.9	8092.3	8127.4	8536.1	8102.4	5148.1
35°	9058.1	9040.1	8864.6	8659.4	8522.9	8519.0	8577.5	8605.5	9002.7	8595.5	5269.0
37.5°	9945.9	9929.5	9691.5	9393.5	9201.6	9129.8	9199.2	9235.2	9668.2	9228.1	5463.2
40°	10821.1	10804.7	10663.5	10390.5	10094.8	9922.5	9977.1	10015.3	10498.9	9995.8	5708.2
42.5°	11425.0	11439.0	11488.1	11510.8	11233.8	10871.8	10896.8	10936.6	11371.9	10816.5	5988.3
45°	11584.1	11614.5	11892.2	12437.6	12541.3	12258.9	11997.6	12019.4	12258.9	11637.2	6268.3
47.5°	11105.9	11162.1	11698.0	12712.2	13590.6	13790.4	13295.7	13266.8	13110.0	12301.1	6467.3
50°	10019.2	10070.7	10765.0	12265.1	13908.8	15252.2	14851.3	14766.2	13856.6	12698.1	6537.5
52.5°	8446.4	8508.8	9072.9	10857.8	13308.9	15904.4	16324.2	16253.2	14404.2	12729.3	6549.2
55°	5964.9	6040.5	6637.3	8321.6	11407.8	15385.6	16846.1	16825.0	14859.1	12646.6	6574.1
57.5°	3352.2	3406.9	4050.5	5334.5	8355.1	13401.1	16300.8	16440.4	15133.6	12503.1	6611.6
60°	1488.5	1503.3	1836.5	2655.6	4891.4	10241.5	14739.7	14975.3	14898.1	12311.1	6674.7
62.5°	825.4	812.9	812.9	1103.9	2125.9	6340.1	12019.4	12408.7	13892.5	12084.1	6677.9
65°	646.7	635.0	601.5	606.2	809.8	2813.9	8323.2	9015.1	11982.8	11418.7	6453.2
67.5°	548.4	538.2	504.7	491.5	503.2	928.4	4573.1	5291.6	9092.4	9689.2	5589.6
70°	463.4	456.4	439.2	422.8	393.2	458.7	1749.8	2238.2	5602.9	6445.4	3815.6
72.5°	372.9	369.8	376.1	362.0	326.1	305.8	598.3	724.7	2516.7	2876.3	1572.0
75°	321.4	319.9	323.0	308.9	268.4	213.0	304.2	332.4	709.9	703.7	318.3
77.5°	209.0	211.4	267.5	261.3	230.9	142.0	157.6	170.1	215.3	161.5	96.7
80°	133.4	131.8	135.7	216.9	207.5	108.4	78.8	82.7	103.8	79.6	46.8
82.5°	81.1	79.6	89.0	101.4	104.5	75.6	48.3	49.2	64.7	51.5	25.0
85°	7.0	9.3	53.8	49.9	35.9	23.4	23.4	25.0	34.3	30.5	14.1
87.5°	0.0	0.0	9.3	14.1	7.8	8.6	8.6	9.3	13.2	13.2	7.0
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°	4045.7	4045.7	4045.7	4045.7	4045.7	4045.7	4045.7	4045.7	4045.7	4045.7	4045.7
2.5°	4048.9	3967.7	3803.9	3646.4	3512.9	3384.2	3237.5	3092.5	3024.5	2997.3	2969.1
5°	4055.9	3888.9	3551.2	3211.0	2858.4	2540.9	2270.2	1992.5	1853.6	1792.8	1764.6
7.5°	4065.3	3811.0	3264.8	2693.8	2125.9	1695.2	1319.2	1077.3	972.8	956.4	915.9
10°	4066.8	3716.5	2932.5	2122.7	1425.3	1022.0	786.4	661.6	615.6	607.7	594.4
12.5°	4069.9	3605.0	2563.5	1572.0	950.2	683.4	568.7	527.3	514.9	514.1	514.1
15°	4079.2	3488.0	2180.5	1132.8	682.6	541.4	499.3	482.9	478.3	480.6	479.7
17.5°	4079.2	3349.8	1804.4	844.1	551.6	486.8	463.4	452.5	450.9	453.3	454.0
20°	4049.6	3182.2	1459.6	656.8	489.2	451.7	430.7	420.5	416.6	418.2	418.9
22.5°	3978.6	2976.2	1178.8	543.7	447.8	419.7	397.1	381.5	375.2	376.1	376.1
25°	3867.9	2732.0	922.1	470.4	414.3	385.4	358.8	340.9	337.0	336.2	337.8
27.5°	3725.9	2462.1	734.1	414.3	374.5	347.2	320.6	305.8	302.7	303.5	304.2
30°	3586.3	2182.1	578.9	366.7	330.0	304.2	283.9	276.9	276.9	279.3	280.0
32.5°	3458.3	1912.8	457.9	325.3	290.2	266.8	255.1	254.3	258.2	259.8	260.6
35°	3348.3	1664.0	379.1	293.3	259.0	238.8	234.8	237.9	242.6	245.7	246.5
37.5°	3270.3	1441.7	331.5	266.8	234.8	218.4	217.6	223.9	230.1	237.2	238.8
40°	3237.5	1253.7	298.7	243.4	215.3	202.8	200.5	209.0	220.8	230.9	232.5
42.5°	3210.2	1100.0	270.7	220.8	199.7	181.7	181.0	191.9	206.0	216.1	218.4
45°	3186.8	976.7	245.0	196.6	179.4	156.0	158.4	172.4	183.3	194.2	196.6
47.5°	3138.5	875.3	216.9	170.8	148.2	133.4	138.1	150.5	159.1	175.5	177.8
50°	3051.8	792.7	188.0	139.6	120.9	115.4	122.5	131.1	142.0	156.0	157.6
52.5°	2993.3	730.2	163.0	117.0	99.9	101.4	108.4	111.6	117.8	123.2	121.7
55°	2959.8	695.9	142.8	101.4	85.1	89.7	91.3	87.4	84.2	78.8	76.5
57.5°	2955.9	664.7	127.2	88.1	74.9	77.2	71.7	58.5	47.6	41.4	39.8
60°	2949.7	626.5	114.7	74.2	66.3	63.2	51.5	32.0	22.6	21.1	21.1
62.5°	2881.8	567.1	105.4	62.4	56.2	47.6	29.6	14.8	12.5	13.2	13.2
65°	2665.7	484.5	95.9	50.7	44.4	34.3	14.8	8.6	4.7	5.5	5.5
67.5°	2266.3	386.1	85.8	39.0	33.5	21.8	8.6	3.9	0.0	0.0	0.0
70°	1517.3	239.5	72.6	27.3	21.8	13.2	6.2	0.7	0.0	0.0	0.0
72.5°	581.9	129.5	58.5	16.4	14.1	9.3	3.9	0.0	0.0	0.0	0.0
75°	131.1	85.1	40.5	11.7	10.2	6.2	1.6	0.0	0.0	0.0	0.0
77.5°	49.9	61.7	23.4	7.8	7.0	3.9	0.0	0.0	0.0	0.0	0.0
80°	24.2	36.7	10.9	4.7	3.9	1.6	0.0	0.0	0.0	0.0	0.0
82.5°	12.5	14.1	4.7	2.3	1.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.0	7.0	2.3	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.9	2.3	0.7	0.7	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)