

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: P269380

Luminaire Tested: **GLEON-AF-06-LED-E1-AFL-7027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269380
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: GLEON-AF-06-LED-E1-AFL-7027-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1050mA 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: 25320.3 lumens
Efficiency: N/A
Efficacy: 76.0 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): 333
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

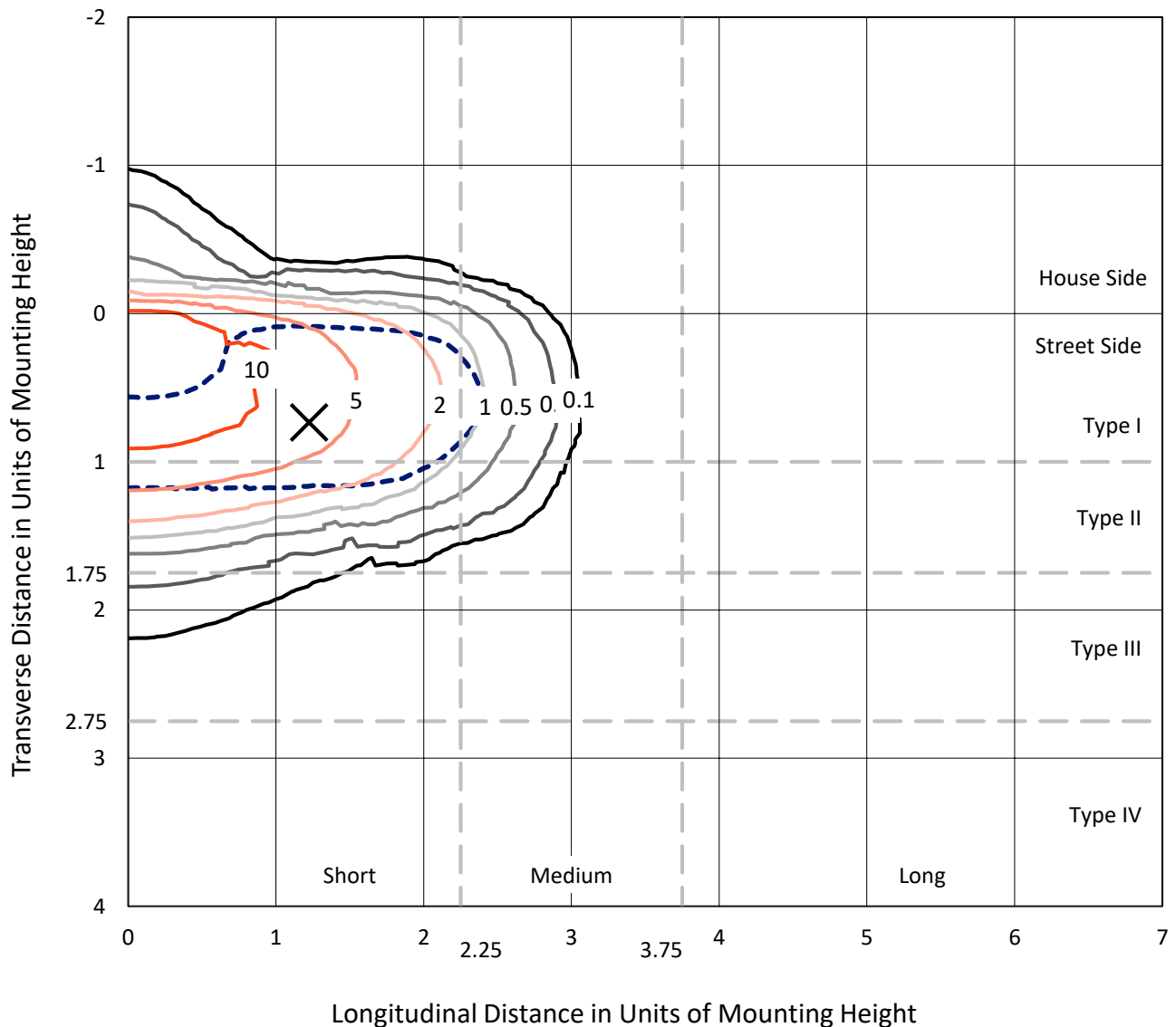


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

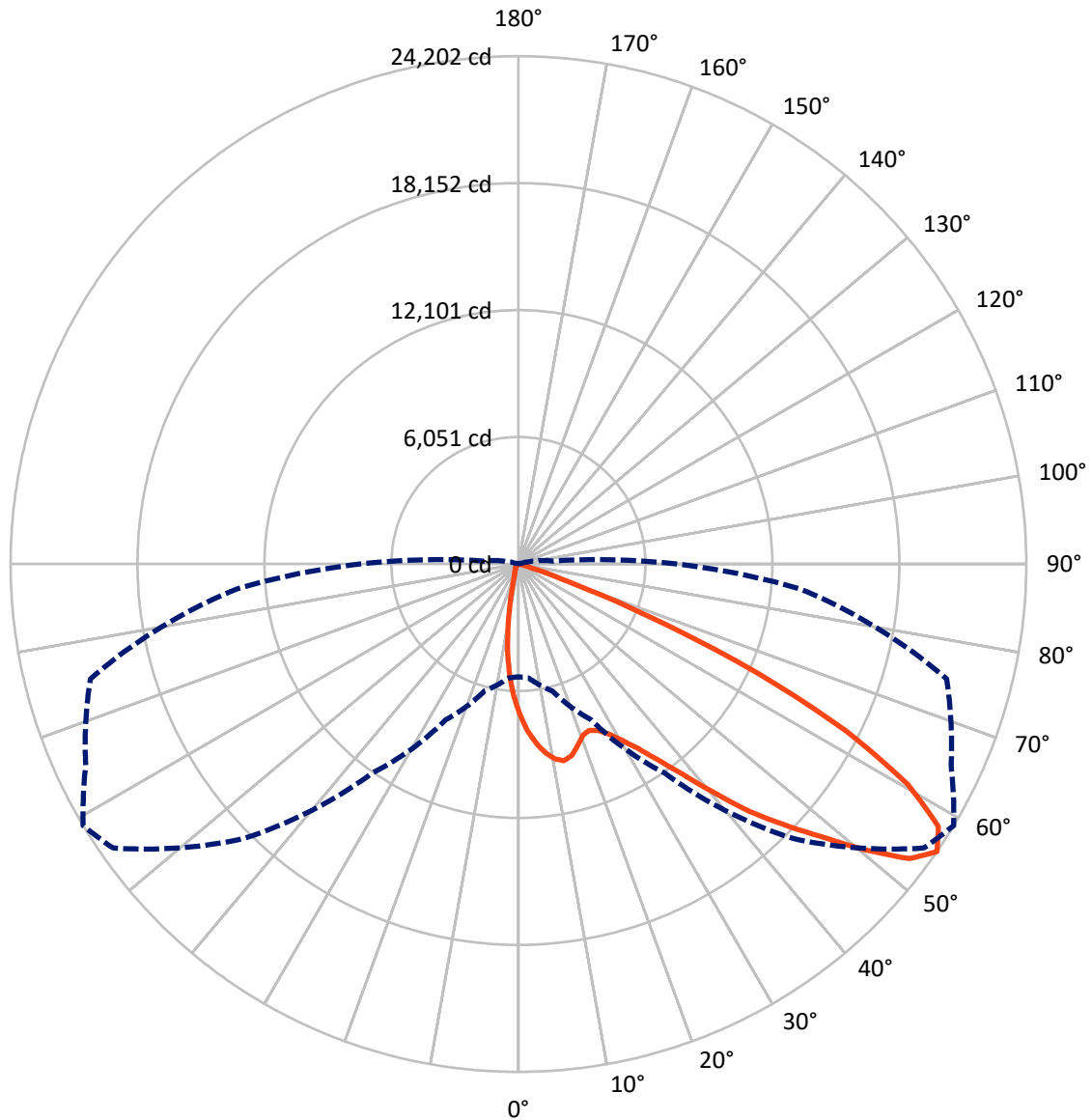


Based on 25 foot mounting height. Maximum calculated value = 14.2 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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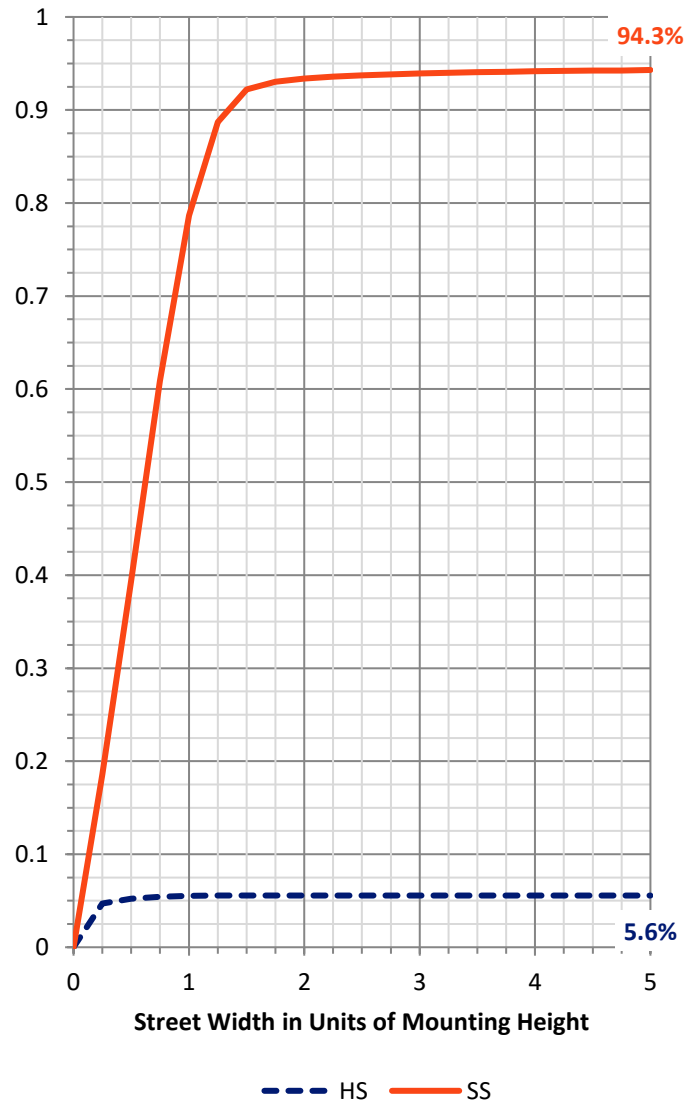
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1414.3	0.0	1414.3
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	23906.0	0.0	23906.0
	% Fixture	94.4	0.0	94.4
Total	Lumens	25320.3	0.0	25320.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	597.0	2.4
10°-20°	1429.4	5.6
20°-30°	2432.3	9.6
30°-40°	4183.0	16.5
40°-50°	6458.1	25.5
50°-60°	6492.5	25.6
60°-70°	3329.4	13.1
70°-80°	360.8	1.4
80°-90°	37.7	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°	25320.3	100.0
0°-180°	25320.3	100.0



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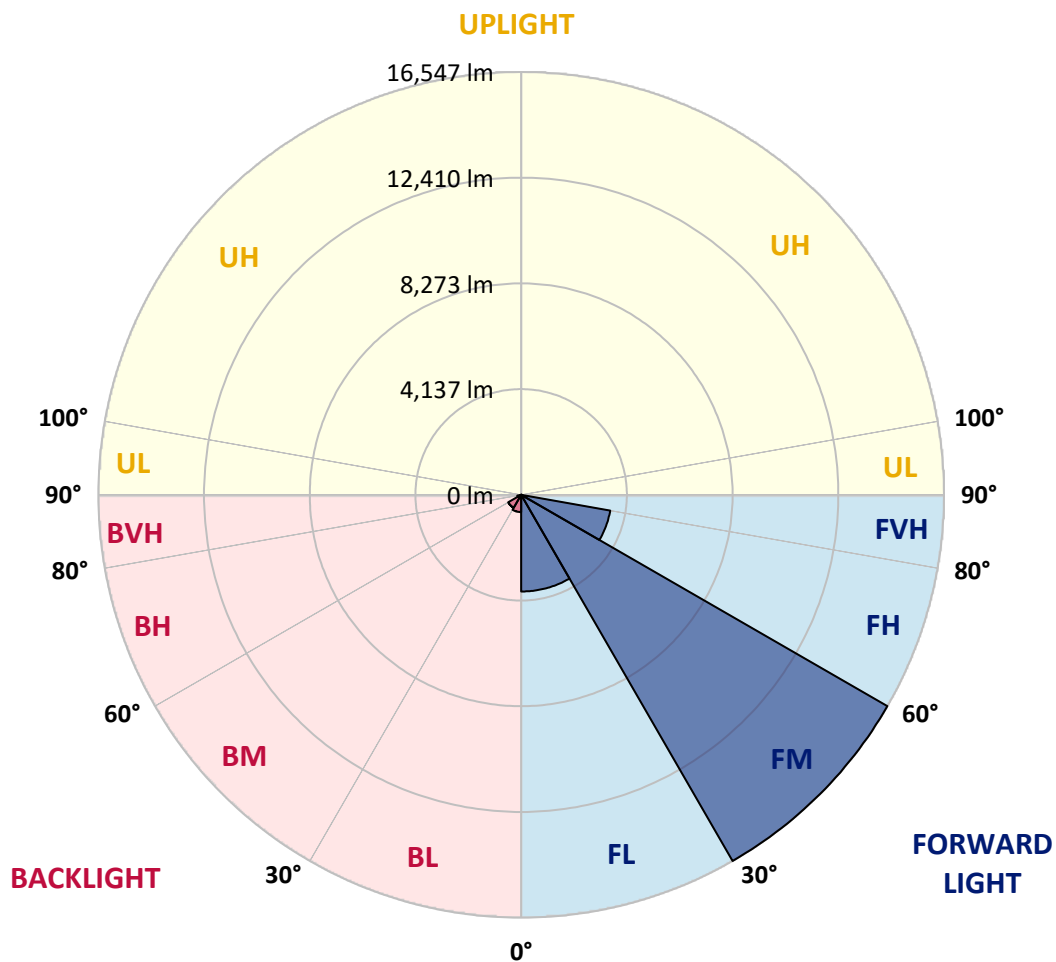
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3783.7	14.9			
FM (30°-60°)	16546.7	65.3			
FH (60°-80°)	3538.7	14.0			G2/5000
FVH (80°-90°)	36.9	0.1			G1/100
BL (0°-30°)	675.0	2.7	B2/1000		
BM (30°-60°)	586.9	2.3	B1/1000		
BH (60°-80°)	151.5	0.6	B1/500		G1/500
BVH (80°-90°)	0.8	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°	7127.5	7127.5	7127.5	7127.5	7127.5	7127.5	7127.5	7127.5	7127.5	7127.5	7127.5
2.5°	8433.6	8343.8	8317.0	8299.0	8216.8	8113.9	7973.3	7907.6	7773.0	7556.5	7290.5
5°	9206.1	9189.7	9129.8	9097.0	9008.8	8862.4	8638.2	8530.7	8317.0	7952.3	7475.8
7.5°	8868.3	8971.5	9053.7	9191.1	9364.4	9358.5	9170.2	9058.1	8819.0	8337.9	7681.9
10°	7563.9	7647.6	7782.0	8094.4	8730.8	9292.7	9513.9	9433.2	9241.9	8692.0	7880.7
12.5°	7308.4	7299.4	7323.3	7414.5	7747.7	8548.6	9455.6	9618.5	9579.6	9016.3	8068.9
15°	7444.3	7433.8	7430.9	7462.3	7543.0	7880.7	9017.7	9485.6	9785.9	9316.6	8228.8
17.5°	7825.3	7780.6	7756.7	7731.3	7707.4	7791.0	8491.8	9113.5	9817.1	9579.6	8361.9
20°	8478.4	8403.6	8315.5	8172.1	8037.6	7995.8	8270.6	8730.8	9705.2	9779.8	8448.5
22.5°	9298.7	9203.0	9050.7	8789.1	8515.8	8357.3	8379.7	8609.9	9537.8	9998.0	8488.9
25°	10220.6	10098.1	9894.9	9531.8	9129.8	8848.9	8702.5	8783.2	9461.6	10253.6	8535.2
27.5°	11208.3	11072.4	10806.4	10311.9	9856.1	9476.5	9177.7	9167.3	9591.6	10588.2	8609.9
30°	12187.0	12166.1	11819.4	11296.5	10692.9	10231.2	9800.8	9745.5	9954.7	11051.5	8757.8
32.5°	13493.0	13336.1	12911.8	12373.9	11677.5	11123.3	10613.7	10485.1	10512.1	11590.9	8986.5
35°	15139.8	14967.9	14370.1	13627.6	12849.0	12194.5	11631.3	11456.4	11390.7	12474.0	9371.9
37.5°	16203.6	16200.7	15825.6	15069.4	14234.3	13512.5	12899.8	12695.1	12562.2	13541.0	9969.6
40°	16232.1	16302.3	16351.6	16344.1	15749.4	15084.3	14540.5	14288.0	13978.6	14966.4	10742.1
42.5°	15360.8	15541.7	15976.4	16714.7	17067.3	16802.7	16344.1	16096.0	15635.8	16492.1	11683.5
45°	14183.3	14308.9	15069.4	16429.2	17781.5	18506.3	18156.6	17712.8	17106.2	18083.4	12527.8
47.5°	13655.9	13678.3	14170.0	15662.7	17835.4	19901.9	20114.0	19392.3	18442.1	19365.4	13188.2
50°	12079.5	12119.8	12798.2	14334.3	17204.8	20560.9	22080.5	21396.1	19898.8	20353.2	13428.9
52.5°	9104.4	9161.3	10021.9	12151.3	15471.5	20280.0	23488.2	23322.2	21494.7	20835.7	13442.2
55°	5371.9	5446.6	6268.4	8179.4	12169.2	18492.8	23592.6	24202.3	22754.3	21121.2	13421.3
57.5°	2508.8	2561.2	3031.8	4213.8	7568.4	14615.2	22017.7	23598.7	23449.3	21272.1	13569.3
60°	1332.8	1347.7	1461.4	1824.5	3420.3	9267.4	18944.0	21309.5	22815.7	21481.3	13750.0
62.5°	1019.0	1023.6	1017.6	1060.9	1437.5	4113.7	14319.4	17518.6	20265.0	21324.4	13549.9
65°	883.2	890.6	848.7	838.3	921.9	1467.3	8506.8	12487.3	15924.3	19207.1	12185.6
67.5°	791.9	794.9	744.2	700.8	715.7	793.5	3356.1	6836.2	10540.4	14078.7	8832.5
70°	729.2	726.2	670.9	602.1	582.8	542.3	1066.8	2505.8	5037.1	7139.5	4107.7
72.5°	645.5	647.0	620.1	530.4	484.1	379.5	494.5	730.7	1503.3	1945.5	962.4
75°	572.3	564.9	531.9	475.2	398.9	249.5	245.1	325.7	463.3	460.2	207.7
77.5°	413.8	406.5	417.0	390.0	306.3	161.3	122.4	156.9	188.3	182.3	58.3
80°	303.4	298.9	269.0	324.3	270.5	110.6	76.1	83.7	97.1	82.1	18.0
82.5°	207.7	206.3	189.8	179.3	153.9	67.3	47.8	52.3	62.7	46.4	9.0
85°	32.9	37.4	137.5	109.1	91.2	29.9	32.9	35.8	41.9	25.4	3.0
87.5°	0.0	0.0	64.3	56.9	18.0	11.9	19.5	20.9	20.9	13.5	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°	7127.5	7127.5	7127.5	7127.5	7127.5	7127.5	7127.5	7127.5	7127.5	7127.5	7127.5
2.5°	7154.5	7005.1	6728.7	6443.3	6178.7	5863.4	5646.7	5484.0	5295.6	5244.8	5355.3
5°	7203.8	6921.4	6326.7	5679.7	5071.6	4397.6	3882.0	3474.1	3105.0	2979.5	3093.1
7.5°	7281.5	6861.6	5891.9	4826.5	3768.5	2716.6	1996.4	1522.6	1220.7	1131.1	1178.9
10°	7359.2	6774.8	5388.3	3816.3	2369.9	1322.5	860.7	687.4	623.2	609.7	617.1
12.5°	7423.5	6658.3	4774.1	2713.6	1267.1	708.3	563.3	534.9	526.0	526.0	528.9
15°	7462.3	6482.0	4046.4	1725.9	729.2	534.9	491.6	482.6	482.6	484.1	487.2
17.5°	7457.8	6258.0	3250.0	1044.5	545.5	473.6	448.3	440.8	439.4	442.2	443.9
20°	7402.6	5965.0	2450.5	688.8	475.2	431.8	406.5	393.0	391.5	394.4	397.5
22.5°	7297.9	5603.4	1752.8	530.4	428.9	391.5	360.1	348.2	348.2	351.1	354.1
25°	7170.9	5161.1	1198.3	449.8	387.0	348.2	318.3	307.8	310.9	318.3	319.7
27.5°	7012.4	4663.6	814.4	385.6	336.1	304.9	282.3	274.9	282.3	292.8	295.8
30°	6876.5	4145.0	581.3	333.2	285.4	262.9	249.5	249.5	260.0	279.5	284.0
32.5°	6772.0	3642.9	448.3	294.4	248.0	228.6	221.2	228.6	245.1	264.6	269.0
35°	6758.5	3229.0	379.5	262.9	221.2	201.7	198.7	212.2	228.6	243.6	246.6
37.5°	6861.6	2846.5	342.2	237.6	197.3	179.3	176.2	192.7	209.1	227.1	231.7
40°	7057.4	2546.2	315.2	213.6	177.9	158.5	152.4	164.4	186.8	210.7	216.8
42.5°	7311.3	2298.1	285.4	189.8	158.5	131.5	124.1	137.5	161.3	186.8	194.3
45°	7553.4	2084.4	252.6	162.9	132.9	101.6	98.6	116.6	128.5	153.9	159.9
47.5°	7686.3	1896.2	224.1	132.9	103.0	82.1	82.1	86.6	98.6	128.5	134.4
50°	7641.6	1745.2	194.3	98.6	71.8	62.7	62.7	61.3	79.2	103.0	107.5
52.5°	7552.0	1658.6	167.4	76.1	49.2	44.8	40.3	44.8	55.2	65.8	67.3
55°	7538.4	1643.7	140.4	61.3	34.3	29.9	22.4	22.4	22.4	20.9	18.0
57.5°	7643.0	1667.6	118.0	49.2	25.4	19.5	11.9	0.0	0.0	0.0	0.0
60°	7750.7	1692.9	101.6	34.3	18.0	10.5	1.4	0.0	0.0	0.0	0.0
62.5°	7571.4	1636.3	85.2	20.9	13.5	4.5	0.0	0.0	0.0	0.0	0.0
65°	6651.0	1392.6	67.3	14.9	9.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	4730.7	932.4	44.8	9.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	2159.2	390.0	28.3	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	461.6	121.0	19.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	94.1	88.2	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	29.9	139.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	18.0	100.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	3.0	14.9	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)