

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: P190926

Luminaire Tested: **GLEON-AF-08-LED-E1-AFL-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190926
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-08-LED-E1-AFL-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 800mA 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: 32276.1 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 334
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

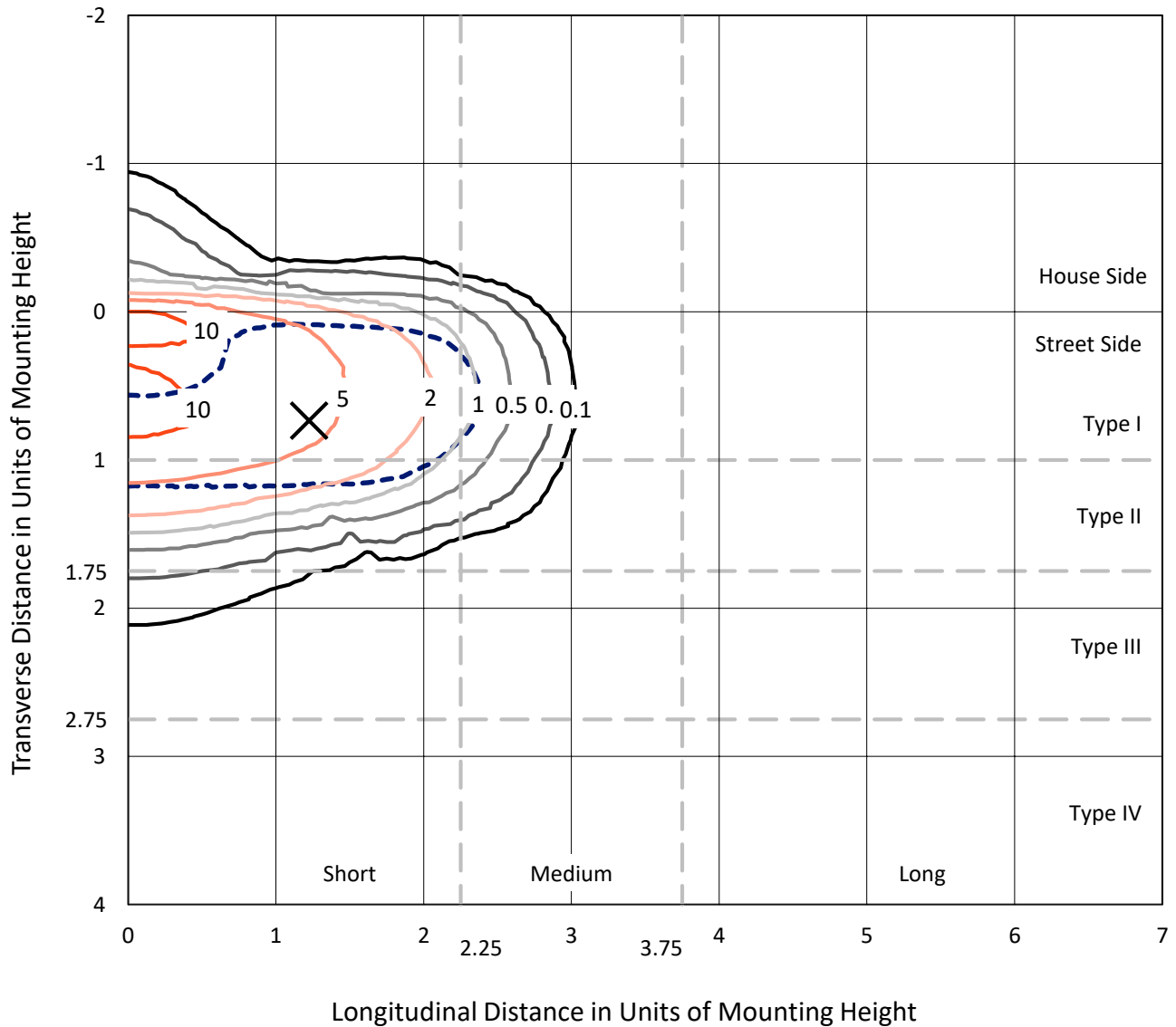


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

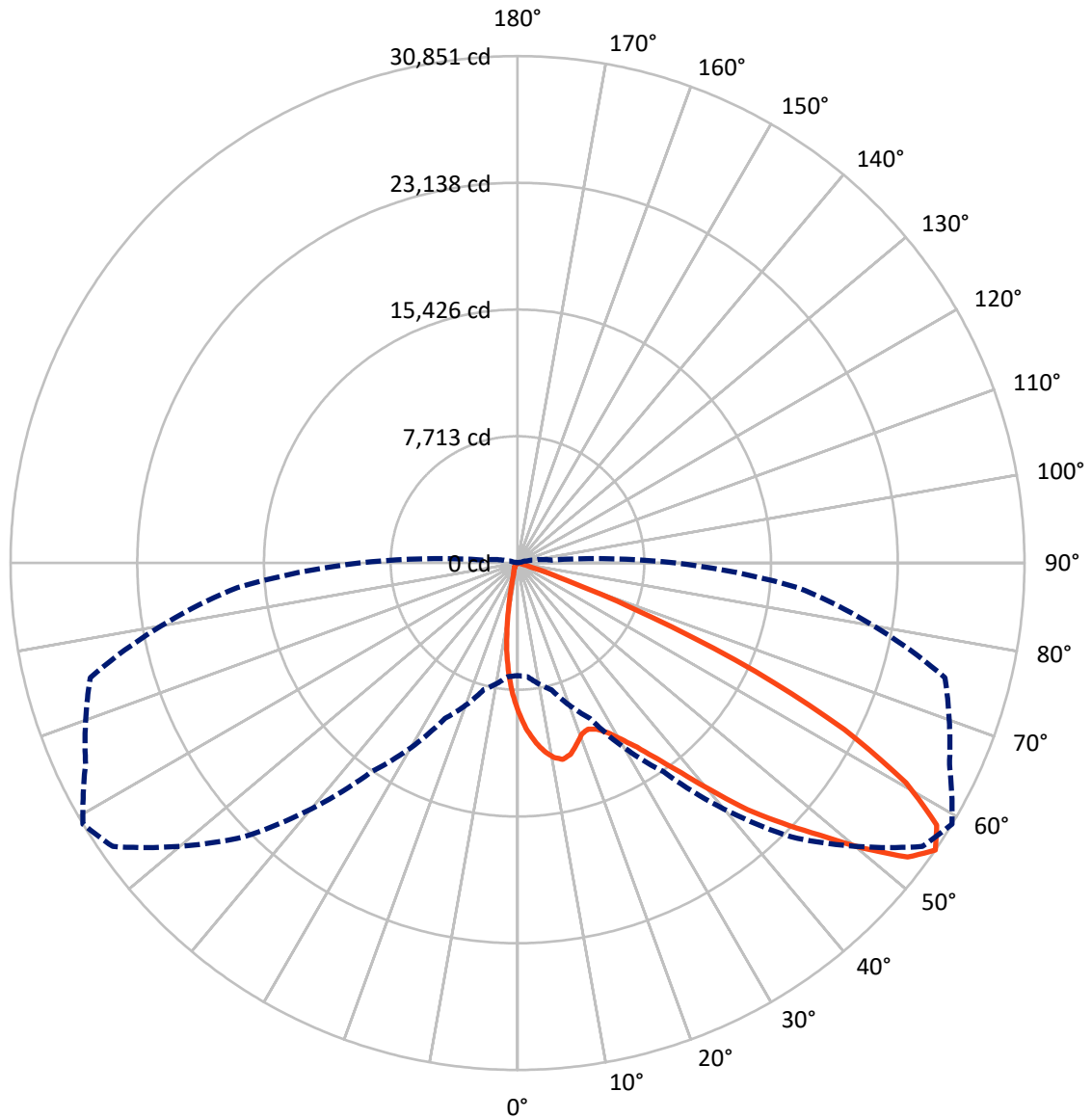


Based on 30 foot mounting height. Maximum calculated value = 12.6 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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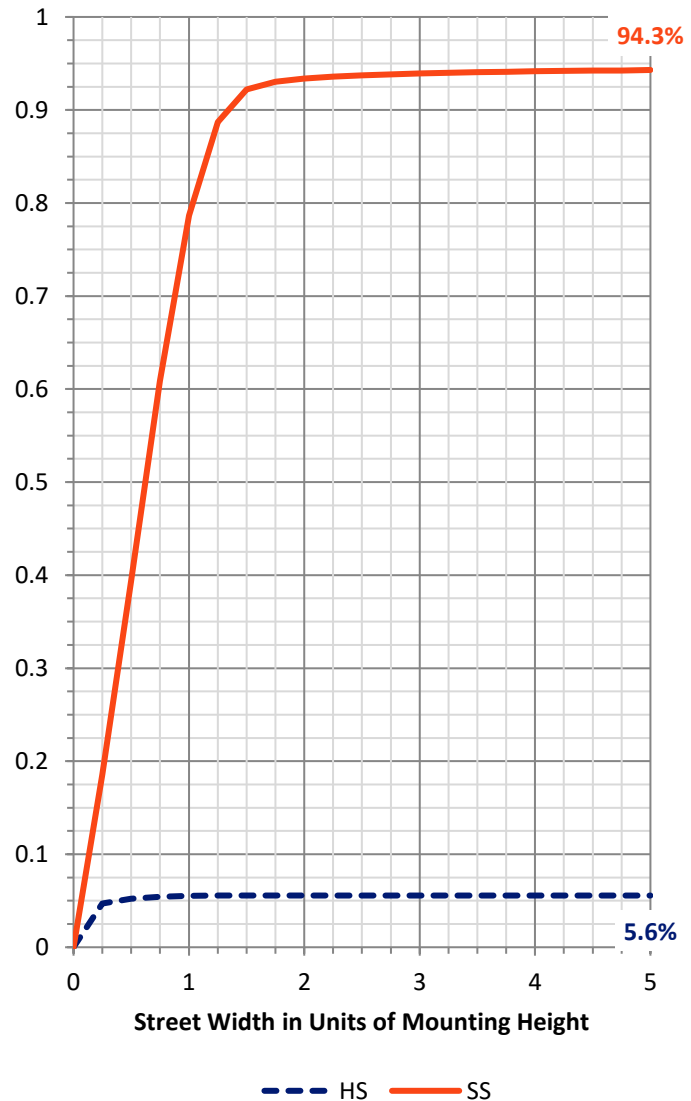
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1802.8	0.0	1802.8
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	30473.3	0.0	30473.3
	% Fixture	94.4	0.0	94.4
Total	Lumens	32276.1	0.0	32276.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	761.0	2.4
10°-20°	1822.1	5.6
20°-30°	3100.5	9.6
30°-40°	5332.2	16.5
40°-50°	8232.3	25.5
50°-60°	8276.1	25.6
60°-70°	4244.0	13.1
70°-80°	459.9	1.4
80°-90°	48.1	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°	32276.1	100.0
0°-180°	32276.1	100.0

Coefficient of Utilization



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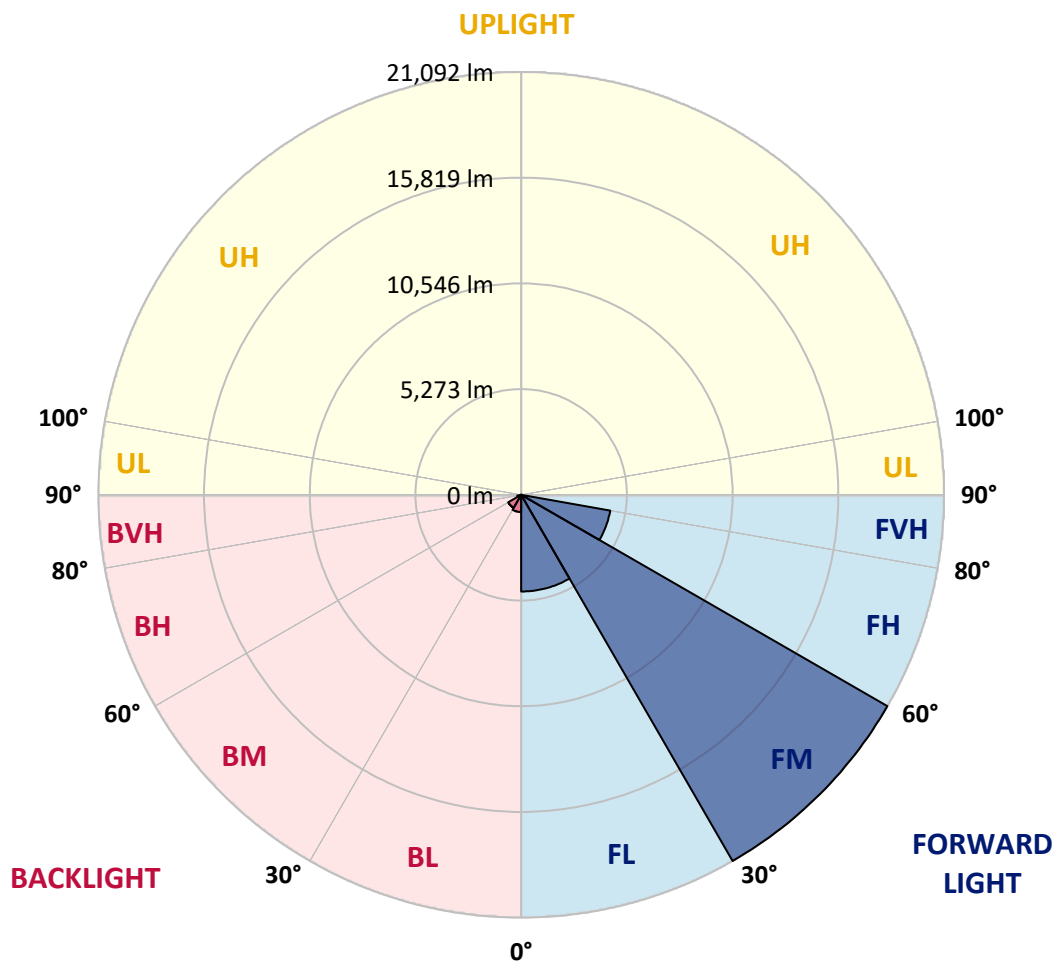
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4823.1	14.9			
FM	(30°-60°)	21092.3	65.3			
FH	(60°-80°)	4510.8	14.0			G2/5000
FVH	(80°-90°)	47.1	0.1			G1/100
BL	(0°-30°)	860.5	2.7	B2/1000		
BM	(30°-60°)	748.2	2.3	B1/1000		
BH	(60°-80°)	193.1	0.6	B1/500		G1/500
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: 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°	9085.6	9085.6	9085.6	9085.6	9085.6	9085.6	9085.6	9085.6	9085.6	9085.6	9085.6
2.5°	10750.4	10636.0	10601.8	10578.9	10474.2	10342.7	10163.7	10079.9	9908.5	9632.3	9293.2
5°	11735.1	11714.1	11638.0	11596.1	11483.6	11297.1	11011.3	10874.2	10601.8	10137.0	9529.4
7.5°	11304.6	11436.1	11540.8	11716.1	11937.0	11929.4	11689.4	11546.6	11241.8	10628.5	9792.3
10°	9641.8	9748.5	9919.9	10318.0	11129.4	11845.6	12127.5	12024.7	11780.8	11079.9	10045.6
12.5°	9316.1	9304.7	9335.1	9451.3	9876.1	10897.0	12053.2	12260.8	12211.3	11493.3	10285.6
15°	9489.4	9476.1	9472.3	9512.3	9615.1	10045.6	11495.1	12091.3	12474.2	11876.0	10489.4
17.5°	9975.1	9918.0	9887.5	9855.1	9824.6	9931.3	10824.7	11617.0	12514.2	12211.3	10658.9
20°	10807.5	10712.2	10599.9	10417.0	10245.6	10192.3	10542.7	11129.4	12371.3	12466.5	10769.4
22.5°	11853.2	11731.3	11537.0	11203.7	10855.1	10653.2	10681.8	10975.1	12158.0	12744.6	10820.9
25°	13028.4	12872.2	12613.2	12150.3	11638.0	11279.9	11093.2	11196.1	12060.8	13070.3	10879.9
27.5°	14287.5	14114.2	13775.1	13144.6	12563.7	12079.8	11698.9	11685.6	12226.5	13497.0	10975.1
30°	15535.0	15508.4	15066.5	14399.9	13630.3	13041.8	12493.2	12422.7	12689.4	14087.5	11163.7
32.5°	17199.8	16999.8	16458.9	15773.2	14885.6	14178.9	13529.3	13365.6	13399.8	14775.1	11455.1
35°	19298.9	19079.8	18317.9	17371.2	16378.9	15544.6	14826.5	14603.6	14519.9	15900.7	11946.5
37.5°	20655.0	20651.2	20173.1	19209.3	18144.6	17224.5	16443.6	16182.7	16013.2	17260.8	12708.4
40°	20691.2	20780.7	20843.5	20834.0	20076.0	19228.4	18535.1	18213.1	17818.9	19077.9	13693.2
42.5°	19580.7	19811.2	20365.5	21306.4	21755.9	21418.9	20834.0	20517.8	19931.2	21022.7	14893.1
45°	18079.8	18239.8	19209.3	20942.7	22666.4	23590.3	23144.5	22578.8	21805.5	23051.2	15969.4
47.5°	17407.5	17436.0	18062.7	19965.5	22735.0	25369.3	25639.8	24719.7	23508.3	24685.4	16811.3
50°	15398.0	15449.3	16314.1	18272.2	21931.2	26209.2	28146.4	27274.0	25365.4	25944.5	17118.0
52.5°	11605.6	11678.0	12775.1	15489.3	19721.7	25851.2	29940.6	29729.2	27399.7	26559.7	17135.0
55°	6847.5	6942.8	7990.4	10426.5	15512.2	23573.1	30073.9	30851.1	29005.4	26923.6	17108.3
57.5°	3198.1	3264.7	3864.7	5371.4	9647.6	18630.3	28066.4	30081.6	29891.1	27115.9	17297.0
60°	1699.0	1718.0	1862.8	2325.7	4359.9	11813.2	24148.3	27163.5	29083.5	27382.6	17527.4
62.5°	1299.0	1304.8	1297.1	1352.3	1832.4	5243.7	18253.1	22331.2	25832.1	27182.6	17272.2
65°	1125.7	1135.3	1081.9	1068.6	1175.3	1870.5	10843.7	15917.9	20298.8	24483.5	15533.2
67.5°	1009.6	1013.3	948.6	893.3	912.4	1011.4	4278.1	8714.2	13436.0	17946.4	11258.9
70°	929.6	925.7	855.2	767.6	742.9	691.4	1360.0	3194.3	6420.9	9100.9	5236.2
72.5°	822.9	824.7	790.4	676.2	617.1	483.8	630.4	931.4	1916.2	2479.9	1226.6
75°	729.5	720.0	678.1	605.7	508.6	318.1	312.4	415.2	590.4	586.7	264.7
77.5°	527.6	518.1	531.4	497.2	390.5	205.7	156.2	200.0	240.0	232.4	74.3
80°	386.7	380.9	342.9	413.4	344.7	141.0	97.2	106.7	123.8	104.8	22.8
82.5°	264.7	262.9	241.9	228.5	196.2	85.7	61.0	66.7	80.0	59.0	11.5
85°	41.9	47.7	175.2	139.0	116.2	38.1	41.9	45.7	53.3	32.4	3.8
87.5°	0.0	0.0	81.9	72.4	22.8	15.2	24.8	26.7	26.7	17.2	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°	9085.6	9085.6	9085.6	9085.6	9085.6	9085.6	9085.6	9085.6	9085.6	9085.6	9085.6
2.5°	9119.9	8929.4	8577.0	8213.3	7876.1	7474.2	7198.0	6990.4	6750.5	6685.6	6826.6
5°	9182.7	8822.7	8064.6	7239.9	6464.7	5605.7	4948.5	4428.6	3958.1	3798.0	3942.9
7.5°	9281.8	8746.5	7510.4	6152.3	4803.8	3462.8	2544.7	1940.9	1556.2	1441.8	1502.8
10°	9380.9	8636.1	6868.5	4864.7	3020.9	1685.7	1097.1	876.2	794.3	777.1	786.6
12.5°	9462.8	8487.5	6085.6	3459.0	1615.2	902.9	718.1	681.9	670.4	670.4	674.3
15°	9512.3	8262.8	5158.0	2200.0	929.6	681.9	626.7	615.2	615.2	617.1	620.9
17.5°	9506.6	7977.1	4142.8	1331.4	695.2	603.8	571.4	561.9	560.0	563.9	565.7
20°	9436.1	7603.7	3123.8	878.1	605.7	550.4	518.1	500.9	499.0	502.9	506.7
22.5°	9302.7	7142.8	2234.2	676.2	546.7	499.0	459.0	443.8	443.8	447.6	451.4
25°	9140.9	6579.0	1527.6	573.4	493.4	443.8	405.7	392.4	396.2	405.7	407.6
27.5°	8939.0	5944.7	1038.1	491.4	428.6	388.5	360.0	350.5	360.0	373.4	377.2
30°	8765.7	5283.7	740.9	424.7	363.8	335.2	318.1	318.1	331.4	356.2	361.9
32.5°	8632.3	4643.8	571.4	375.2	316.2	291.4	281.9	291.4	312.4	337.2	342.9
35°	8615.2	4116.1	483.8	335.2	281.9	257.2	253.3	270.5	291.4	310.5	314.3
37.5°	8746.5	3628.5	436.2	302.9	251.4	228.5	224.7	245.7	266.7	289.5	295.2
40°	8996.1	3245.7	401.9	272.4	226.7	201.9	194.3	209.5	238.1	268.5	276.2
42.5°	9319.9	2929.5	363.8	241.9	201.9	167.7	158.0	175.2	205.7	238.1	247.7
45°	9628.4	2657.1	321.9	207.7	169.5	129.5	125.7	148.5	163.8	196.2	203.8
47.5°	9798.0	2417.1	285.7	169.5	131.4	104.8	104.8	110.5	125.7	163.8	171.4
50°	9740.8	2224.7	247.7	125.7	91.5	80.0	80.0	78.1	101.0	131.4	137.2
52.5°	9626.6	2114.2	213.3	97.2	62.8	57.2	51.5	57.2	70.5	83.8	85.7
55°	9609.4	2095.2	179.0	78.1	43.8	38.1	28.5	28.5	28.5	26.7	22.8
57.5°	9742.8	2125.7	150.5	62.8	32.4	24.8	15.2	0.0	0.0	0.0	0.0
60°	9879.9	2158.1	129.5	43.8	22.8	13.3	1.9	0.0	0.0	0.0	0.0
62.5°	9651.3	2085.7	108.5	26.7	17.2	5.7	0.0	0.0	0.0	0.0	0.0
65°	8478.0	1775.2	85.7	19.0	11.5	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	6030.4	1188.6	57.2	11.5	1.9	0.0	0.0	0.0	0.0	0.0	0.0
70°	2752.4	497.2	36.2	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	588.6	154.3	24.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	120.0	112.4	9.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	38.1	177.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	22.8	127.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	3.8	19.0	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)