

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: P190944

Luminaire Tested: **GLEON-AF-06-LED-E1-AFL-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190944
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-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 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: 32703.7 lumens
Efficiency: N/A
Efficacy: 85.6 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): 382
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

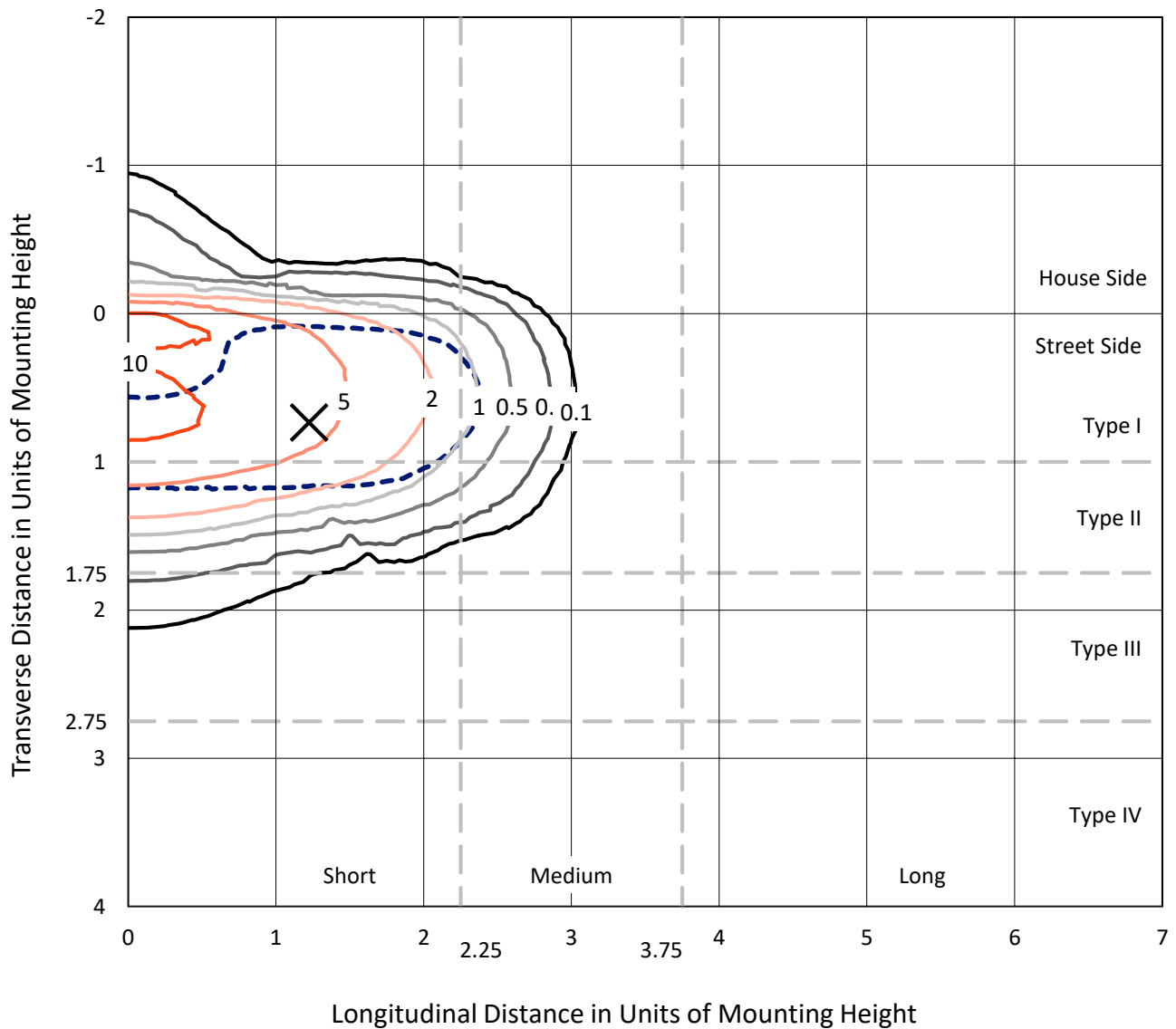


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

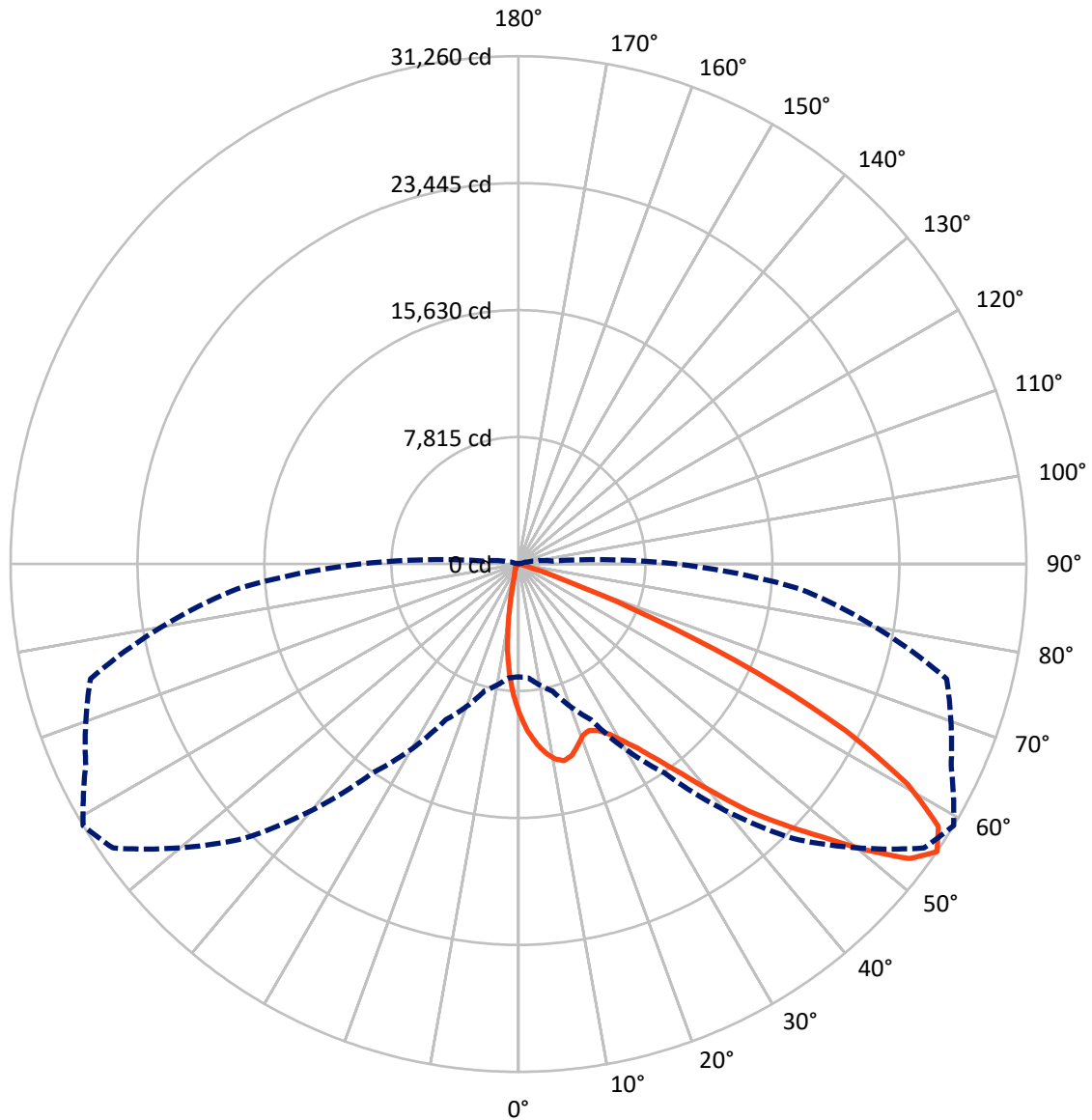


Based on 30 foot mounting height. Maximum calculated value = 12.7 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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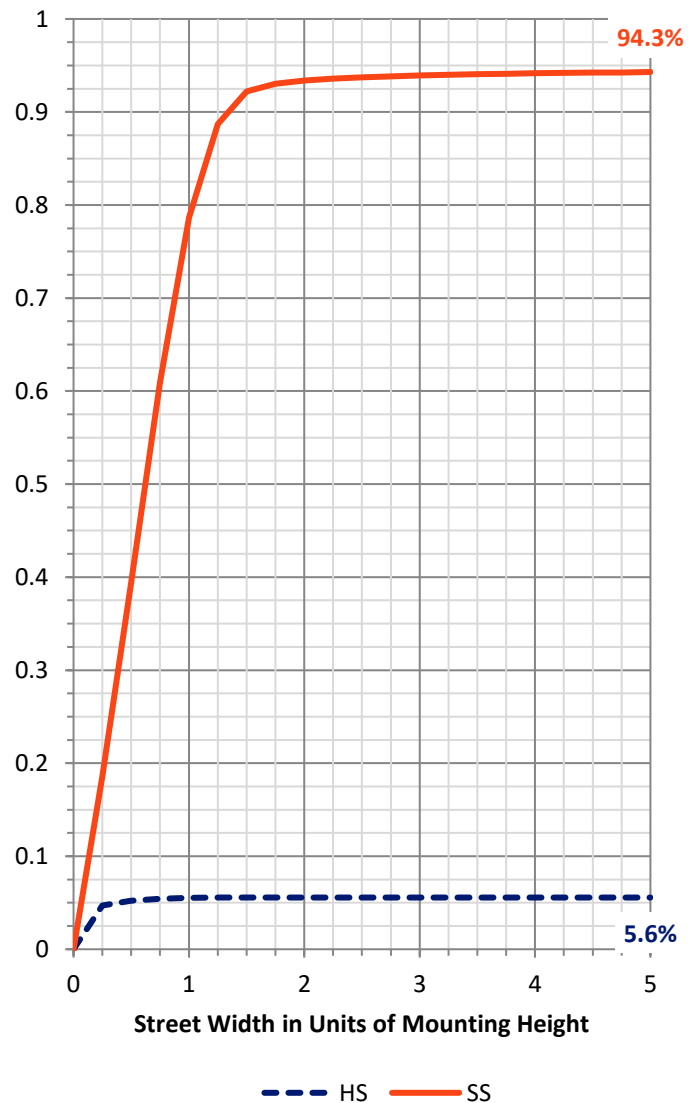
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1826.7	0.0	1826.7
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	30877.1	0.0	30877.1
	% Fixture	94.4	0.0	94.4
Total	Lumens	32703.7	0.0	32703.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	771.1	2.4
10°-20°	1846.2	5.6
20°-30°	3141.6	9.6
30°-40°	5402.8	16.5
40°-50°	8341.3	25.5
50°-60°	8385.7	25.6
60°-70°	4300.2	13.1
70°-80°	466.0	1.4
80°-90°	48.7	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°	32703.7	100.0
0°-180°	32703.7	100.0

Coefficient of Utilization



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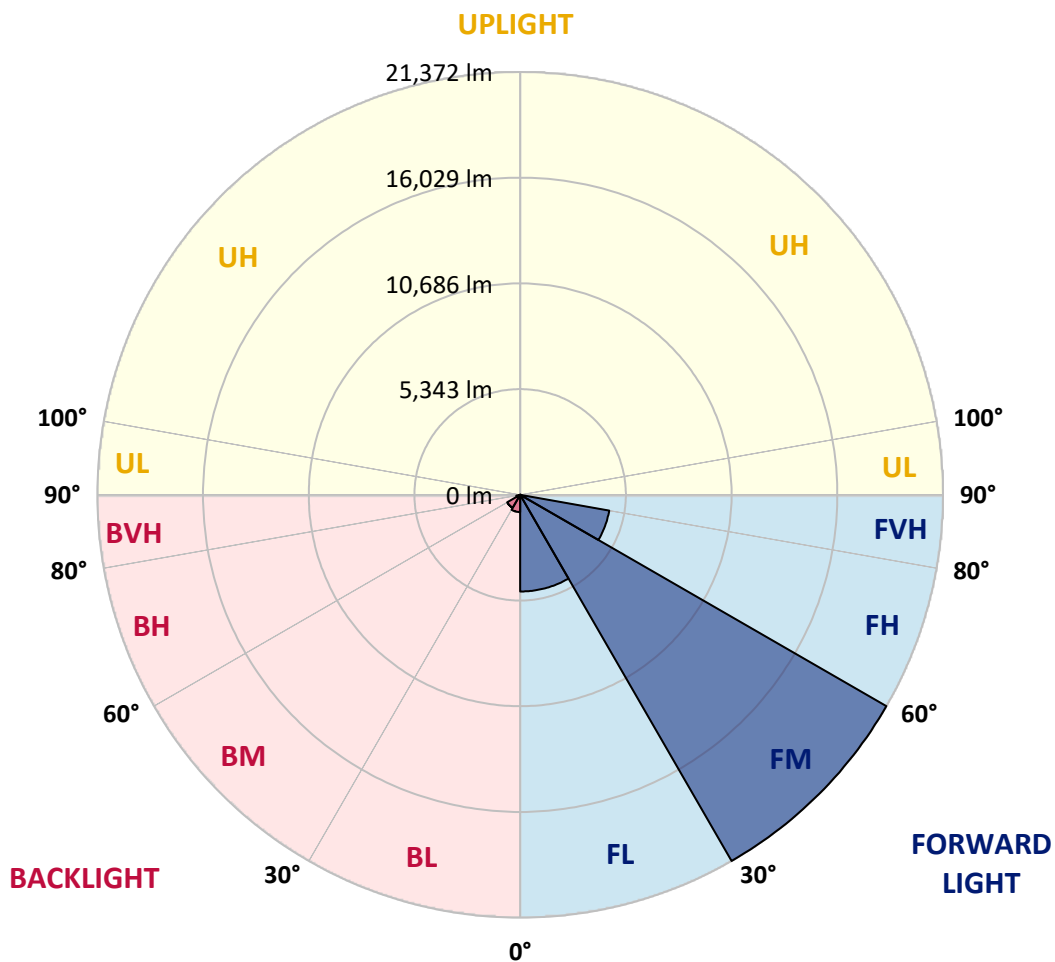
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4887.0	14.9			
FM	(30°-60°)	21371.8	65.3			
FH	(60°-80°)	4570.6	14.0			G2/5000
FVH	(80°-90°)	47.7	0.1			G1/100
BL	(0°-30°)	871.9	2.7	B2/1000		
BM	(30°-60°)	758.1	2.3	B1/1000		
BH	(60°-80°)	195.7	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°	9205.9	9205.9	9205.9	9205.9	9205.9	9205.9	9205.9	9205.9	9205.9	9205.9	9205.9
2.5°	10892.8	10777.0	10742.2	10719.1	10612.9	10479.7	10298.4	10213.4	10039.8	9759.9	9416.4
5°	11890.6	11869.4	11792.2	11749.7	11635.9	11446.7	11157.2	11018.2	10742.2	10271.3	9655.6
7.5°	11454.4	11587.6	11693.8	11871.2	12095.2	12087.4	11844.2	11699.5	11390.8	10769.2	9922.0
10°	9769.5	9877.6	10051.3	10454.7	11276.8	12002.5	12288.2	12184.0	11936.9	11226.7	10178.7
12.5°	9439.5	9427.9	9458.8	9576.6	10006.9	11041.4	12212.9	12423.2	12373.1	11645.5	10421.8
15°	9615.1	9601.6	9597.7	9638.3	9742.5	10178.7	11647.4	12251.5	12639.4	12033.4	10628.4
17.5°	10107.3	10049.4	10018.5	9985.7	9954.8	10062.9	10968.1	11770.9	12680.0	12373.1	10800.1
20°	10950.7	10854.2	10740.3	10555.0	10381.3	10327.3	10682.4	11276.8	12535.2	12631.7	10912.1
22.5°	12010.3	11886.7	11689.9	11352.1	10999.0	10794.4	10823.3	11120.5	12319.0	12913.4	10964.2
25°	13201.1	13042.7	12780.3	12311.3	11792.2	11429.3	11240.2	11344.4	12220.6	13243.5	11024.0
27.5°	14476.7	14301.2	13957.6	13318.7	12730.1	12239.9	11854.0	11840.5	12388.5	13675.8	11120.5
30°	15740.9	15713.9	15266.1	14590.7	13810.9	13214.6	12658.7	12587.3	12857.5	14274.1	11311.6
32.5°	17427.7	17225.1	16677.0	15982.2	15082.8	14366.7	13708.7	13542.6	13577.4	14970.8	11606.9
35°	19554.5	19332.5	18560.6	17601.4	16595.8	15750.6	15023.0	14797.1	14712.2	16111.5	12104.8
37.5°	20928.7	20924.8	20440.4	19463.8	18385.0	17452.8	16661.5	16397.1	16225.3	17489.4	12876.8
40°	20965.4	21056.0	21119.7	21110.1	20342.0	19483.1	18780.6	18454.4	18054.9	19330.6	13874.6
42.5°	19840.1	20073.7	20635.3	21588.7	22044.2	21702.6	21110.1	20789.7	20195.3	21301.1	15090.5
45°	18319.3	18481.4	19463.8	21220.1	22966.7	23902.8	23451.1	22877.9	22094.4	23356.5	16180.9
47.5°	17638.0	17667.0	18301.9	20230.0	23036.2	25705.3	25979.4	25047.3	23819.7	25012.5	17034.0
50°	15601.9	15654.0	16530.3	18514.3	22221.8	26556.4	28519.3	27635.3	25701.5	26288.2	17344.6
52.5°	11759.3	11832.7	12944.3	15694.5	19982.9	26193.7	30337.2	30123.0	27762.7	26911.6	17362.0
55°	6938.3	7034.7	8096.2	10564.7	15717.7	23885.4	30472.4	31259.8	29389.7	27280.3	17335.0
57.5°	3240.4	3308.0	3916.0	5442.5	9775.3	18877.1	28438.2	30480.1	30287.1	27475.1	17526.1
60°	1721.5	1740.9	1887.5	2356.5	4417.7	11969.8	24468.3	27523.4	29468.8	27745.3	17759.7
62.5°	1316.2	1322.1	1314.3	1370.2	1856.7	5313.2	18495.0	22627.1	26174.3	27542.6	17501.1
65°	1140.6	1150.3	1096.2	1082.7	1190.8	1895.2	10987.3	16128.8	20567.8	24807.9	15738.9
67.5°	1022.8	1026.7	961.2	905.2	924.4	1024.8	4334.8	8829.6	13614.0	18184.3	11408.0
70°	941.8	937.9	866.5	777.7	752.7	700.6	1378.0	3236.6	6506.0	9221.4	5305.5
72.5°	833.7	835.6	801.0	685.2	625.3	490.2	638.8	943.8	1941.6	2512.9	1242.9
75°	739.2	729.6	687.1	613.8	515.3	322.3	316.5	420.7	598.3	594.4	268.2
77.5°	534.6	525.0	538.5	503.7	395.7	208.5	158.3	202.6	243.2	235.5	75.3
80°	391.8	386.0	347.4	418.8	349.3	142.8	98.4	108.1	125.4	106.2	23.1
82.5°	268.2	266.4	245.1	231.6	198.8	86.8	61.8	67.5	81.0	59.8	11.6
85°	42.5	48.3	177.6	140.9	117.7	38.6	42.5	46.3	54.0	32.8	3.9
87.5°	0.0	0.0	83.0	73.3	23.1	15.4	25.1	27.0	27.0	17.4	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°	9205.9	9205.9	9205.9	9205.9	9205.9	9205.9	9205.9	9205.9	9205.9	9205.9	9205.9
2.5°	9240.7	9047.7	8690.7	8322.0	7980.4	7573.2	7293.3	7083.0	6839.9	6774.2	6917.0
5°	9304.5	8939.7	8171.5	7335.9	6550.4	5679.9	5014.1	4487.2	4010.5	3848.3	3995.0
7.5°	9404.8	8862.4	7609.9	6233.9	4867.4	3508.7	2578.4	1966.6	1576.8	1461.0	1522.8
10°	9505.2	8750.5	6959.4	4929.2	3061.0	1708.0	1111.6	887.8	804.8	787.5	797.1
12.5°	9588.1	8599.9	6166.2	3504.8	1636.6	914.8	727.6	690.9	679.3	679.3	683.2
15°	9638.3	8372.2	5226.4	2229.1	941.8	690.9	634.9	623.4	623.4	625.3	629.2
17.5°	9632.5	8082.7	4197.7	1349.1	704.4	611.8	579.0	569.4	567.4	571.3	573.2
20°	9561.1	7704.5	3165.1	889.8	613.8	557.7	525.0	507.6	505.6	509.5	513.4
22.5°	9426.0	7237.4	2263.9	685.2	553.9	505.6	465.1	449.7	449.7	453.6	457.4
25°	9262.0	6666.2	1547.8	580.9	499.8	449.7	411.1	397.6	401.4	411.1	413.0
27.5°	9057.4	6023.4	1051.8	498.0	434.2	393.7	364.8	355.1	364.8	378.3	382.2
30°	8881.8	5353.7	750.7	430.4	368.7	339.7	322.3	322.3	335.8	360.9	366.7
32.5°	8746.6	4705.3	579.0	380.2	320.4	295.3	285.6	295.3	316.5	341.6	347.4
35°	8729.2	4170.7	490.2	339.7	285.6	260.5	256.7	274.0	295.3	314.6	318.4
37.5°	8862.4	3676.6	441.9	306.9	254.7	231.6	227.7	249.0	270.2	293.4	299.1
40°	9115.3	3288.7	407.2	276.0	229.7	204.6	196.8	212.3	241.2	272.1	279.9
42.5°	9443.4	2968.3	368.7	245.1	204.6	169.8	160.2	177.6	208.5	241.2	250.9
45°	9756.0	2692.3	326.1	210.3	171.8	131.2	127.4	150.6	166.0	198.8	206.5
47.5°	9927.8	2449.1	289.5	171.8	133.2	106.2	106.2	111.9	127.4	166.0	173.7
50°	9869.9	2254.2	250.9	127.4	92.7	81.0	81.0	79.2	102.3	133.2	138.9
52.5°	9754.1	2142.3	216.1	98.4	63.7	57.9	52.1	57.9	71.4	84.9	86.8
55°	9736.8	2122.9	181.4	79.2	44.4	38.6	28.9	28.9	28.9	27.0	23.1
57.5°	9871.8	2153.8	152.4	63.7	32.8	25.1	15.4	0.0	0.0	0.0	0.0
60°	10010.8	2186.7	131.2	44.4	23.1	13.5	1.9	0.0	0.0	0.0	0.0
62.5°	9779.2	2113.3	110.0	27.0	17.4	5.8	0.0	0.0	0.0	0.0	0.0
65°	8590.3	1798.8	86.8	19.3	11.6	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	6110.3	1204.3	57.9	11.6	1.9	0.0	0.0	0.0	0.0	0.0	0.0
70°	2788.8	503.7	36.6	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	596.4	156.3	25.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	121.6	113.9	9.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	38.6	179.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	23.1	129.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	3.9	19.3	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)