

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: P190918

Luminaire Tested: **GLEON-AF-10-LED-E1-AFL-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190918
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-10-LED-E1-AFL-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 615mA 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: 32506.3 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 323
Input Voltage (V): NR
Input Current (A_{in}): 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

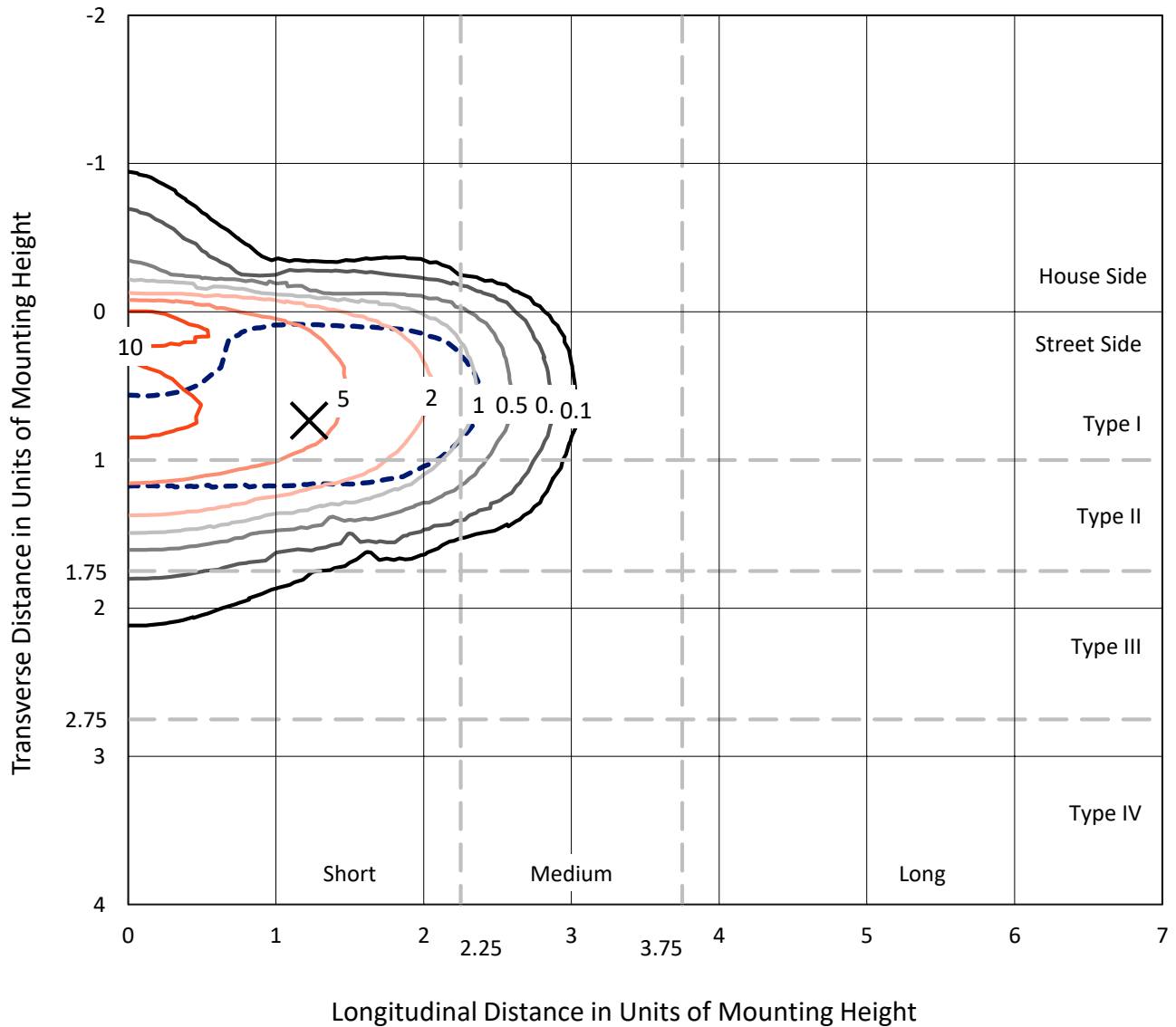


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Iso-Footcandle Lines of Horizontal Illumination

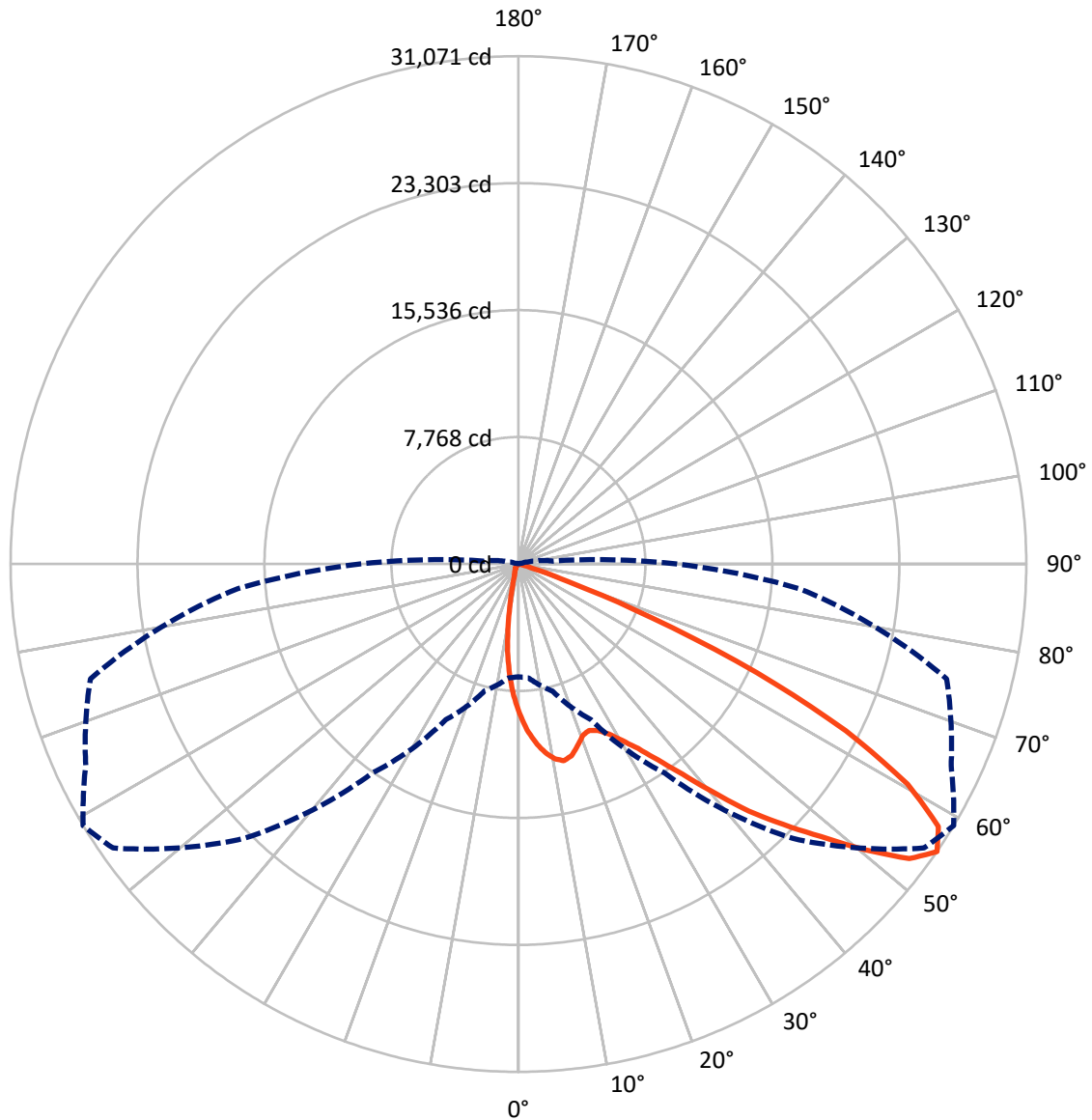
✕ Max cd
 - - - 1/2 Max cd



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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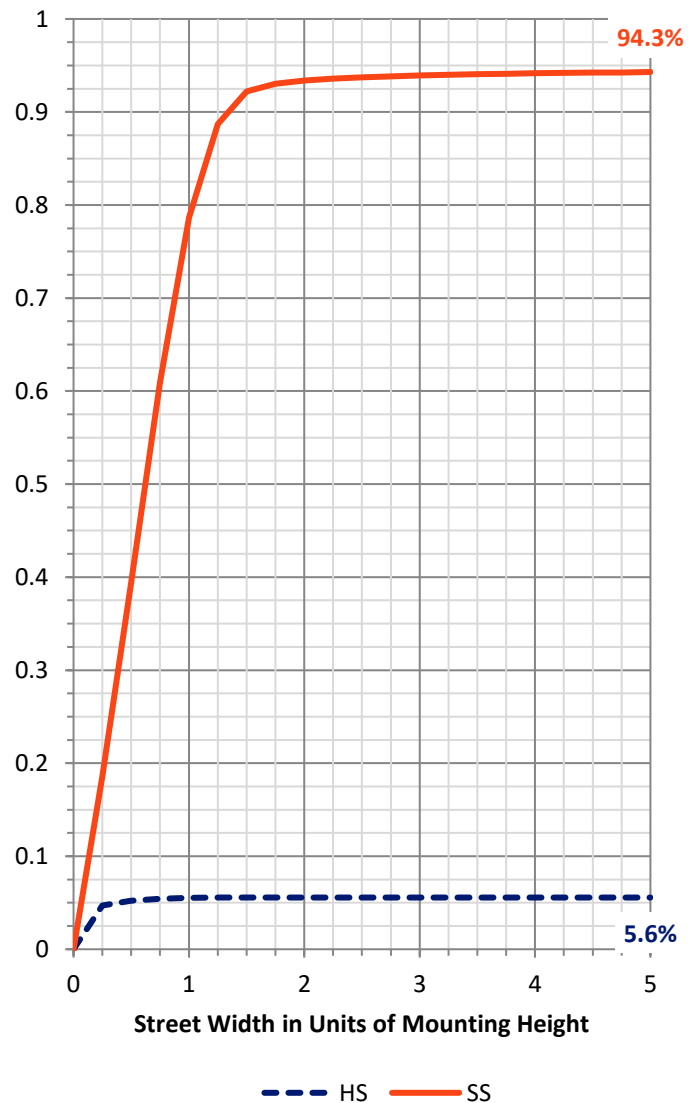
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1815.7	0.0	1815.7
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	30690.6	0.0	30690.6
	% Fixture	94.4	0.0	94.4
Total	Lumens	32506.3	0.0	32506.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	766.4	2.4
10°-20°	1835.1	5.6
20°-30°	3122.6	9.6
30°-40°	5370.2	16.5
40°-50°	8291.0	25.5
50°-60°	8335.1	25.6
60°-70°	4274.3	13.1
70°-80°	463.2	1.4
80°-90°	48.4	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°	32506.3	100.0
0°-180°	32506.3	100.0



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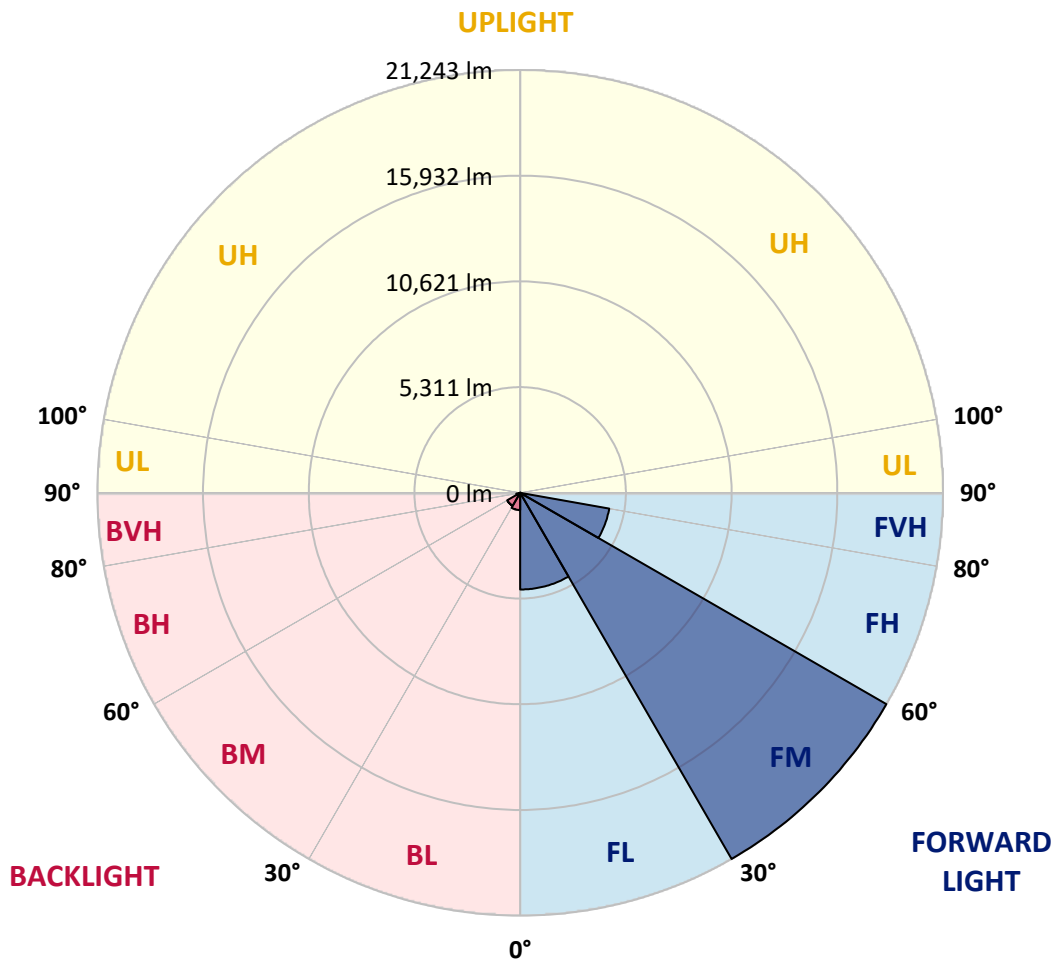
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4857.5	14.9			
FM	(30°-60°)	21242.7	65.3			
FH	(60°-80°)	4543.0	14.0			G2/5000
FVH	(80°-90°)	47.4	0.1			G1/100
BL	(0°-30°)	866.6	2.7	B2/1000		
BM	(30°-60°)	753.5	2.3	B1/1000		
BH	(60°-80°)	194.5	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°	9150.4	9150.4	9150.4	9150.4	9150.4	9150.4	9150.4	9150.4	9150.4	9150.4	9150.4
2.5°	10827.0	10711.9	10677.4	10654.3	10548.9	10416.5	10236.2	10151.8	9979.1	9700.9	9359.5
5°	11818.8	11797.7	11721.0	11678.7	11565.6	11377.6	11089.8	10951.7	10677.4	10209.4	9597.4
7.5°	11385.2	11517.6	11623.2	11799.6	12022.1	12014.5	11772.7	11628.9	11321.9	10704.3	9862.1
10°	9710.6	9818.0	9990.6	10391.5	11208.8	11930.1	12213.9	12110.4	11864.8	11158.9	10117.3
12.5°	9382.5	9371.0	9401.7	9518.8	9946.6	10974.7	12139.2	12348.2	12298.4	11575.2	10358.9
15°	9557.1	9543.6	9539.8	9580.1	9683.7	10117.3	11577.0	12177.5	12563.1	11960.8	10564.2
17.5°	10046.3	9988.7	9958.0	9925.4	9894.7	10002.1	10901.8	11699.9	12603.4	12298.4	10734.9
20°	10884.6	10788.7	10675.5	10491.3	10318.7	10265.0	10617.9	11208.8	12459.5	12555.4	10846.2
22.5°	11937.7	11815.0	11619.3	11283.6	10932.6	10729.2	10758.0	11053.4	12244.6	12835.5	10898.0
25°	13121.4	12964.1	12703.1	12236.9	11721.0	11360.3	11172.4	11275.9	12146.8	13163.5	10957.4
27.5°	14389.3	14214.8	13873.4	13238.3	12653.3	12166.1	11782.3	11768.9	12313.8	13593.3	11053.4
30°	15645.8	15619.0	15173.9	14502.6	13727.5	13134.8	12582.3	12511.3	12779.9	14187.9	11243.3
32.5°	17322.4	17121.0	16576.2	15885.6	14991.8	14280.0	13625.9	13460.9	13495.4	14880.5	11536.8
35°	19436.5	19215.8	18448.5	17495.1	16495.7	15655.4	14932.2	14707.8	14623.4	16014.2	12031.7
37.5°	20802.3	20798.4	20316.9	19346.4	18274.0	17347.4	16560.9	16298.1	16127.3	17383.8	12799.1
40°	20838.7	20929.0	20992.2	20982.7	20219.1	19365.5	18667.2	18343.0	17945.9	19214.0	13790.8
42.5°	19720.3	19952.5	20510.8	21458.3	21911.1	21571.6	20982.7	20664.2	20073.4	21172.5	14999.4
45°	18208.7	18369.8	19346.4	21092.0	22828.1	23758.4	23309.6	22739.8	21961.0	23215.6	16083.2
47.5°	17531.5	17560.4	18191.4	20107.8	22897.1	25550.1	25822.6	24896.1	23676.0	24861.5	16931.2
50°	15507.7	15559.5	16430.4	18402.5	22087.6	26396.1	28347.1	27468.5	25546.4	26129.5	17240.0
52.5°	11688.3	11761.3	12866.2	15599.8	19862.3	26035.5	30154.1	29941.3	27595.1	26749.1	17257.3
55°	6896.4	6992.3	8047.3	10500.9	15622.8	23741.2	30288.4	31071.1	29212.2	27115.6	17230.4
57.5°	3220.9	3288.0	3892.3	5409.7	9716.3	18763.2	28266.5	30296.1	30104.3	27309.3	17420.3
60°	1711.2	1730.3	1876.1	2342.3	4391.0	11897.4	24320.6	27357.2	29290.9	27577.8	17652.4
62.5°	1308.3	1314.1	1306.4	1362.1	1845.4	5281.2	18383.3	22490.4	26016.3	27376.4	17395.4
65°	1133.7	1143.4	1089.6	1076.1	1183.7	1883.8	10921.0	16031.5	20443.6	24658.1	15644.0
67.5°	1016.7	1020.6	955.3	899.7	918.9	1018.7	4308.6	8776.3	13531.9	18074.4	11339.2
70°	936.1	932.3	861.3	773.0	748.2	696.3	1369.7	3217.1	6466.7	9165.7	5273.5
72.5°	828.7	830.6	796.1	681.0	621.5	487.2	634.9	938.0	1929.8	2497.6	1235.4
75°	734.7	725.2	682.9	610.0	512.2	320.4	314.6	418.2	594.6	590.9	266.7
77.5°	531.4	521.8	535.2	500.6	393.2	207.1	157.3	201.4	241.7	234.1	74.8
80°	389.4	383.7	345.3	416.2	347.2	142.0	97.8	107.4	124.7	105.5	23.0
82.5°	266.7	264.7	243.7	230.2	197.6	86.3	61.4	67.1	80.6	59.4	11.6
85°	42.2	48.0	176.5	140.0	117.0	38.4	42.2	46.0	53.7	32.6	3.9
87.5°	0.0	0.0	82.4	72.9	23.0	15.3	25.0	26.9	26.9	17.3	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°	9150.4	9150.4	9150.4	9150.4	9150.4	9150.4	9150.4	9150.4	9150.4	9150.4	9150.4
2.5°	9185.0	8993.1	8638.2	8271.8	7932.3	7527.5	7249.3	7040.3	6798.5	6733.4	6875.3
5°	9248.3	8885.7	8122.2	7291.6	6510.8	5645.7	4983.8	4460.1	3986.2	3825.1	3970.9
7.5°	9348.0	8808.9	7563.9	6196.2	4838.0	3487.5	2562.9	1954.8	1567.3	1452.2	1513.6
10°	9447.8	8697.6	6917.5	4899.4	3042.5	1697.7	1105.0	882.4	799.9	782.7	792.3
12.5°	9530.2	8548.1	6129.0	3483.7	1626.7	909.3	723.2	686.8	675.2	675.2	679.1
15°	9580.1	8321.7	5194.9	2215.7	936.1	686.8	631.2	619.6	619.6	621.5	625.3
17.5°	9574.3	8033.9	4172.3	1340.9	700.2	608.1	575.5	565.9	564.0	567.8	569.8
20°	9503.4	7657.9	3146.1	884.3	610.0	554.4	521.8	504.5	502.6	506.5	510.2
22.5°	9369.1	7193.7	2250.2	681.0	550.6	502.6	462.3	446.9	446.9	450.8	454.6
25°	9206.0	6625.9	1538.5	577.5	496.8	446.9	408.6	395.2	399.1	408.6	410.5
27.5°	9002.7	5987.1	1045.5	494.9	431.6	391.4	362.5	353.0	362.5	376.0	379.8
30°	8828.2	5321.4	746.2	427.8	366.4	337.7	320.4	320.4	333.8	358.7	364.5
32.5°	8693.9	4676.8	575.5	377.9	318.4	293.5	283.9	293.5	314.6	339.5	345.3
35°	8676.6	4145.5	487.2	337.7	283.9	259.0	255.1	272.4	293.5	312.7	316.5
37.5°	8808.9	3654.4	439.3	305.0	253.2	230.2	226.4	247.5	268.5	291.5	297.4
40°	9060.3	3268.8	404.8	274.4	228.3	203.4	195.7	211.0	239.8	270.5	278.1
42.5°	9386.4	2950.4	366.4	243.7	203.4	168.8	159.2	176.5	207.1	239.8	249.4
45°	9697.2	2676.0	324.2	209.1	170.7	130.4	126.6	149.7	165.0	197.6	205.3
47.5°	9867.9	2434.3	287.8	170.7	132.4	105.5	105.5	111.3	126.6	165.0	172.7
50°	9810.3	2240.6	249.4	126.6	92.1	80.6	80.6	78.7	101.7	132.4	138.1
52.5°	9695.2	2129.4	214.8	97.8	63.3	57.6	51.8	57.6	71.0	84.4	86.3
55°	9677.9	2110.1	180.3	78.7	44.1	38.4	28.7	28.7	28.7	26.9	23.0
57.5°	9812.2	2140.8	151.5	63.3	32.6	25.0	15.3	0.0	0.0	0.0	0.0
60°	9950.3	2173.5	130.4	44.1	23.0	13.4	1.9	0.0	0.0	0.0	0.0
62.5°	9720.2	2100.5	109.4	26.9	17.3	5.7	0.0	0.0	0.0	0.0	0.0
65°	8538.5	1787.9	86.3	19.2	11.6	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	6073.5	1197.1	57.6	11.6	1.9	0.0	0.0	0.0	0.0	0.0	0.0
70°	2772.0	500.6	36.4	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	592.8	155.4	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	120.8	113.1	9.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	38.4	178.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	23.0	128.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	3.9	19.2	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)