

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: P269539

Luminaire Tested: **GLEON-AF-08-LED-E1-AFL-7027-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269539
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-7027-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 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: 37219.7 lumens
Efficiency: N/A
Efficacy: 72.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 511
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

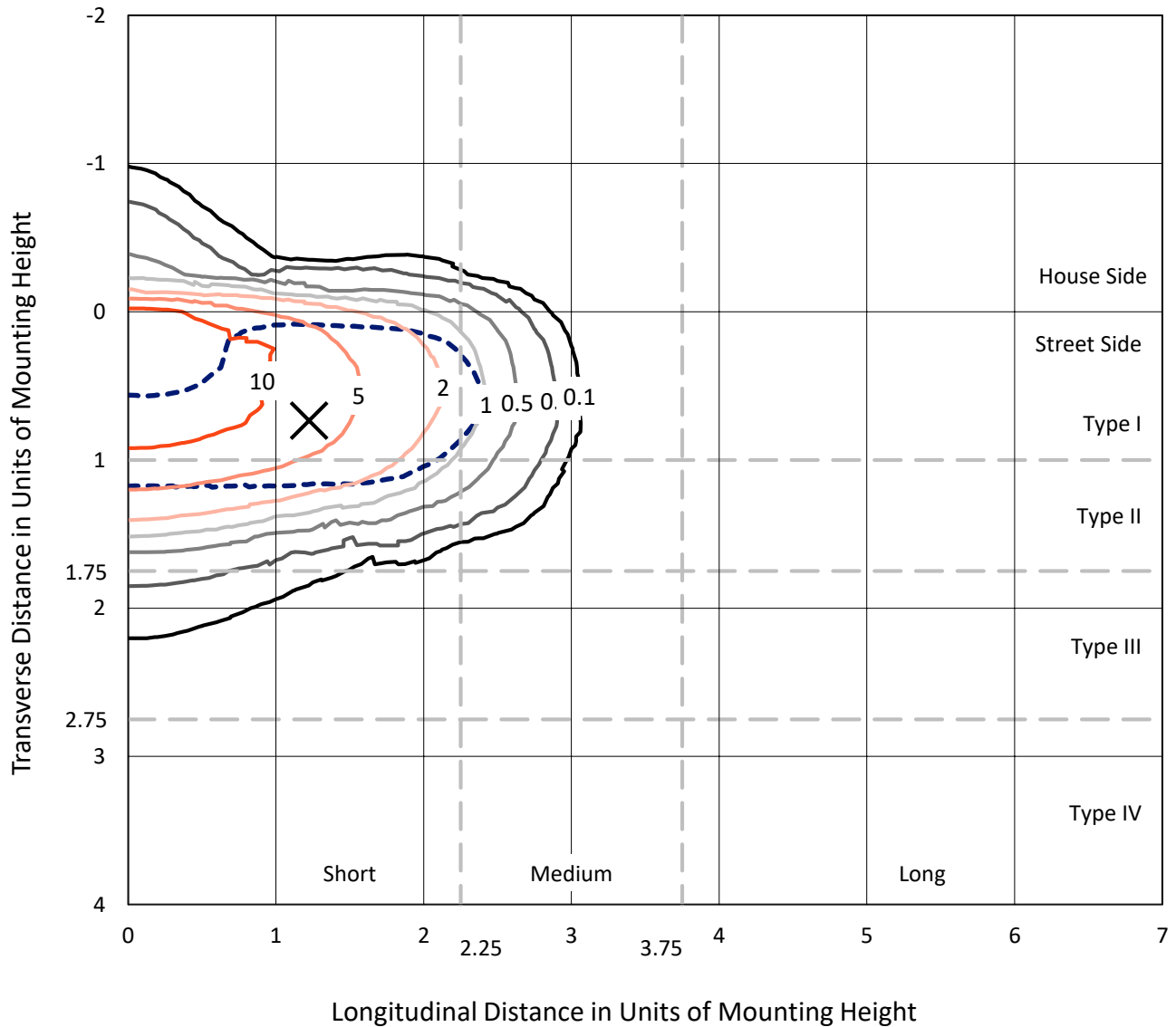


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

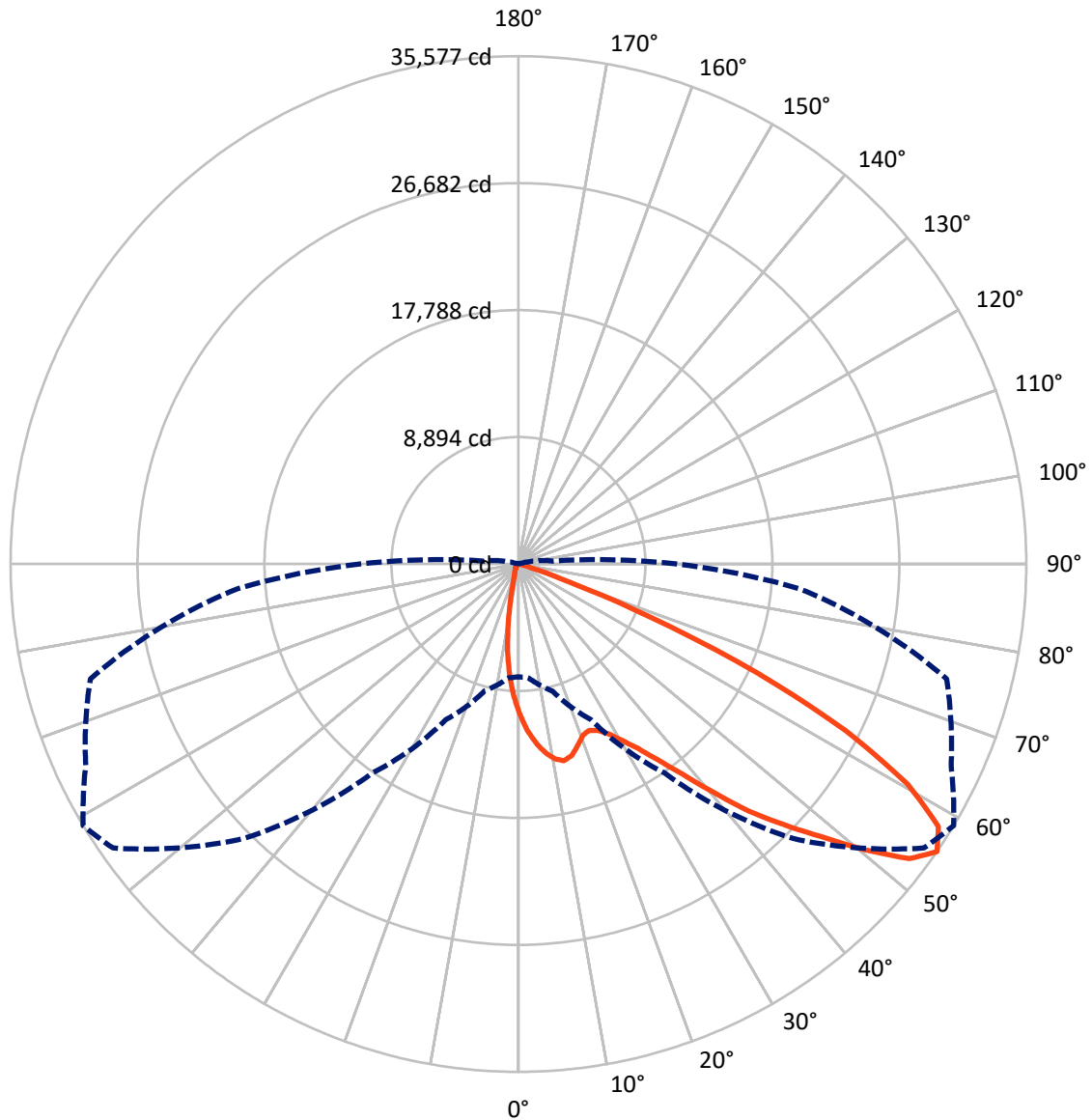


Based on 30 foot mounting height. Maximum calculated value = 14.5 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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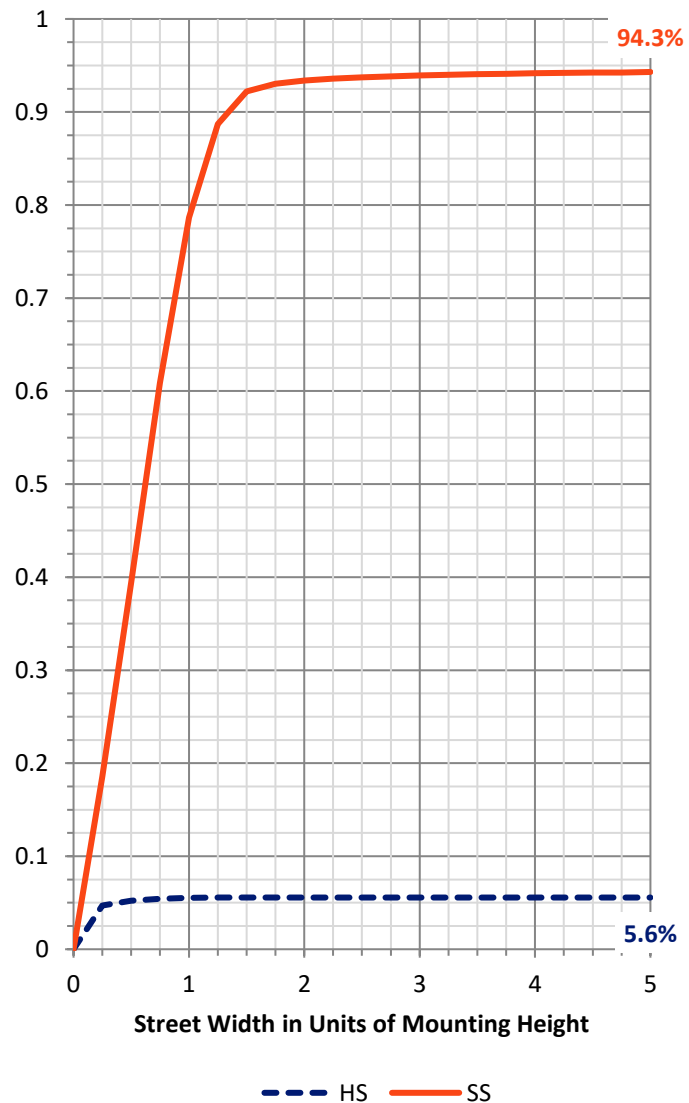
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2078.9	0.0	2078.9
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	35140.8	0.0	35140.8
	% Fixture	94.4	0.0	94.4
Total	Lumens	37219.7	0.0	37219.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	877.6	2.4
10°-20°	2101.2	5.6
20°-30°	3575.4	9.6
30°-40°	6148.9	16.5
40°-50°	9493.2	25.5
50°-60°	9543.7	25.6
60°-70°	4894.1	13.1
70°-80°	530.4	1.4
80°-90°	55.4	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°	37219.7	100.0
0°-180°	37219.7	100.0

Coefficient of Utilization



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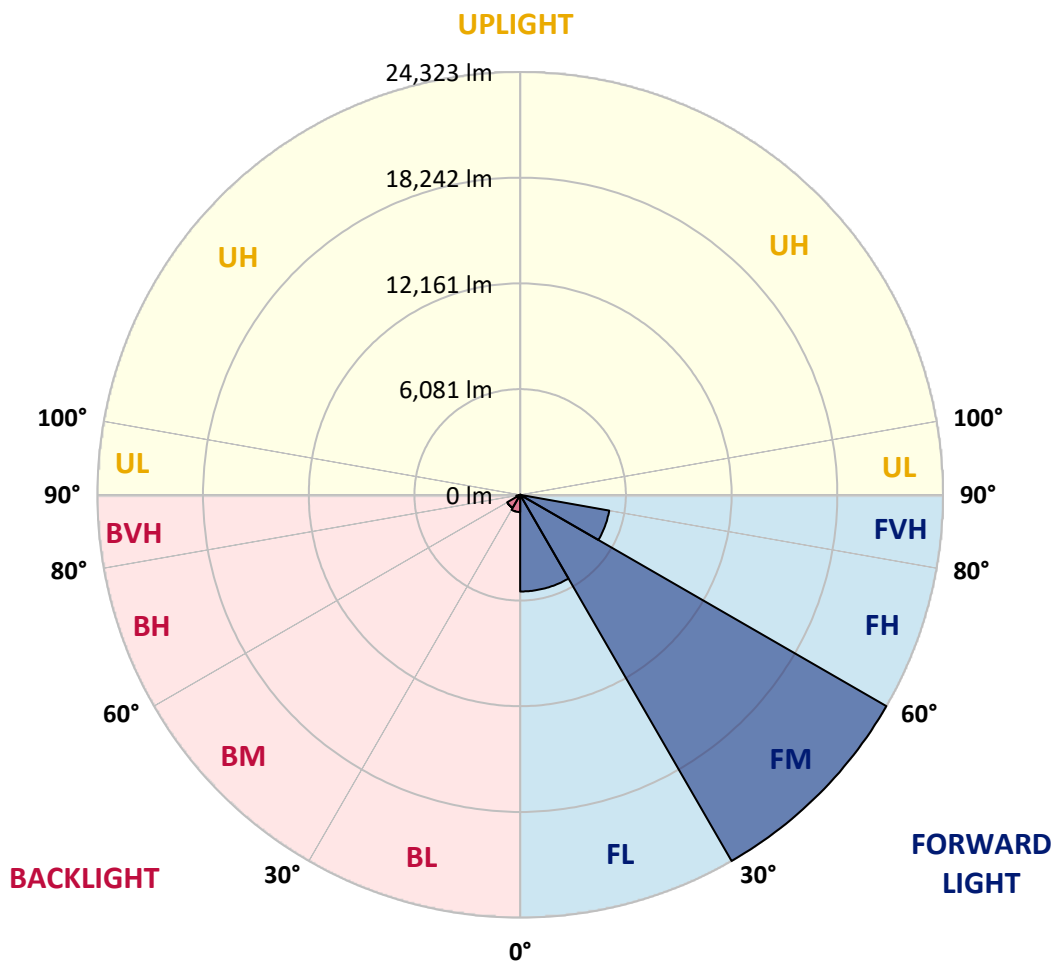
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5561.9	14.9			
FM	(30°-60°)	24322.9	65.3			
FH	(60°-80°)	5201.7	14.0			G3/7500
FVH	(80°-90°)	54.3	0.1			G1/100
BL	(0°-30°)	992.3	2.7	B2/1000		
BM	(30°-60°)	862.8	2.3	B1/1000		
BH	(60°-80°)	222.7	0.6	B1/500		G1/500
BVH	(80°-90°)	1.1	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	10477.2	10477.2	10477.2	10477.2	10477.2	10477.2	10477.2	10477.2	10477.2	10477.2	10477.2
2.5°	12397.0	12265.2	12225.7	12199.3	12078.5	11926.8	11720.5	11623.8	11426.1	11107.6	10716.6
5°	13532.5	13508.4	13420.5	13372.2	13242.6	13027.3	12697.8	12539.7	12225.7	11689.6	10989.0
7.5°	13036.2	13187.7	13308.5	13510.6	13765.4	13756.6	13479.8	13315.0	12963.6	12256.4	11292.1
10°	11118.6	11241.6	11439.2	11898.3	12834.1	13659.9	13985.1	13866.3	13585.2	12777.0	11584.3
12.5°	10743.0	10729.9	10765.0	10899.0	11388.7	12566.1	13899.4	14138.8	14081.7	13253.6	11861.0
15°	10942.9	10927.5	10923.1	10969.3	11087.8	11584.3	13255.7	13943.3	14384.7	13695.1	12096.0
17.5°	11502.9	11437.1	11401.9	11364.5	11329.5	11452.4	12482.6	13396.3	14430.9	14081.7	12291.5
20°	12462.8	12353.0	12223.4	12012.6	11814.9	11753.3	12157.5	12834.1	14266.2	14375.9	12418.9
22.5°	13668.7	13528.1	13304.1	12919.8	12517.7	12285.0	12317.9	12656.1	14020.1	14696.7	12478.3
25°	15024.0	14843.9	14545.0	14011.4	13420.5	13007.5	12792.4	12910.9	13908.1	15072.2	12546.3
27.5°	16475.9	16275.9	15885.0	15157.9	14488.0	13930.0	13490.7	13475.5	14099.2	15564.3	12656.1
30°	17914.4	17883.7	17374.2	16605.3	15718.1	15039.3	14406.7	14325.5	14633.0	16245.2	12873.6
32.5°	19834.2	19603.6	18979.7	18189.2	17165.5	16350.6	15601.7	15412.7	15452.3	17038.2	13209.7
35°	22254.8	22002.1	21123.6	20031.9	18887.6	17925.5	17097.4	16840.4	16743.8	18336.3	13776.3
37.5°	23818.6	23814.2	23263.0	22151.6	20923.7	19862.9	18962.2	18661.3	18465.7	19904.6	14654.9
40°	23860.4	23963.6	24036.0	24025.1	23150.8	22173.6	21374.0	21002.7	20548.1	22000.0	15790.4
42.5°	22579.8	22845.7	23484.7	24569.8	25088.3	24699.4	24025.1	23660.5	22984.0	24242.6	17174.2
45°	20849.0	21033.5	22151.6	24150.4	26138.2	27203.5	26689.5	26037.2	25145.4	26581.8	18415.3
47.5°	20073.6	20106.7	20829.3	23023.5	26217.3	29254.9	29566.9	28505.9	27109.1	28466.4	19386.1
50°	17756.3	17815.6	18812.8	21070.9	25290.3	30223.7	32457.4	31451.5	29250.6	29918.3	19739.7
52.5°	13383.2	13466.6	14731.8	17861.8	22742.4	29810.7	34526.5	34282.6	31596.4	30627.7	19759.6
55°	7896.3	8006.1	9214.3	12023.5	17888.2	27183.7	34680.2	35576.5	33448.0	31047.3	19728.8
57.5°	3687.9	3764.7	4456.8	6194.2	11125.1	21483.9	32365.2	34689.0	34469.5	31269.1	19946.2
60°	1959.3	1981.2	2148.1	2681.9	5027.8	13622.5	27847.0	31324.1	33538.1	31576.6	20212.0
62.5°	1498.1	1504.7	1495.8	1559.5	2113.1	6046.9	21048.8	25751.5	29788.7	31345.9	19917.7
65°	1298.1	1309.1	1247.6	1232.3	1355.3	2156.9	12504.5	18356.0	23407.9	28233.5	17912.4
67.5°	1164.2	1168.5	1093.9	1030.1	1052.2	1166.3	4933.3	10048.9	15494.0	20695.2	12983.5
70°	1071.9	1067.5	986.2	885.2	856.7	797.3	1568.4	3683.5	7404.3	10494.8	6038.1
72.5°	948.9	951.0	911.5	779.8	711.6	557.8	727.1	1074.1	2209.7	2859.8	1414.6
75°	841.3	830.3	782.0	698.5	586.5	366.8	360.2	478.8	680.9	676.6	305.3
77.5°	608.4	597.5	612.9	573.3	450.3	237.2	180.1	230.7	276.8	268.0	85.7
80°	445.9	439.4	395.3	476.6	397.6	162.6	112.0	123.0	142.8	120.8	26.4
82.5°	305.3	303.1	279.0	263.7	226.3	98.9	70.2	76.8	92.3	68.1	13.1
85°	48.2	54.8	202.1	160.3	133.9	43.9	48.2	52.7	61.5	37.3	4.4
87.5°	0.0	0.0	94.4	83.5	26.4	17.5	28.6	30.7	30.7	19.8	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°	10477.2	10477.2	10477.2	10477.2	10477.2	10477.2	10477.2	10477.2	10477.2	10477.2	10477.2
2.5°	10516.7	10297.1	9890.8	9471.2	9082.5	8619.0	8300.5	8061.1	7784.4	7709.7	7872.1
5°	10589.2	10174.2	9300.0	8348.8	7454.9	6464.3	5706.5	5106.9	4564.3	4379.7	4546.7
7.5°	10703.5	10086.3	8660.6	7094.6	5539.5	3993.1	2934.6	2238.1	1794.5	1662.8	1733.0
10°	10817.7	9958.9	7920.5	5609.8	3483.6	1943.9	1265.2	1010.4	915.9	896.1	907.2
12.5°	10912.2	9787.6	7017.7	3988.8	1862.6	1041.1	828.1	786.3	773.1	773.1	777.6
15°	10969.3	9528.3	5948.0	2537.0	1071.9	786.3	722.6	709.5	709.5	711.6	716.0
17.5°	10962.6	9198.9	4777.4	1535.4	801.6	696.2	658.9	647.9	645.8	650.2	652.3
20°	10881.3	8768.4	3602.3	1012.6	698.5	634.8	597.5	577.7	575.5	579.9	584.3
22.5°	10727.6	8236.7	2576.5	779.8	630.4	575.5	529.3	511.8	511.8	516.2	520.6
25°	10540.9	7586.6	1761.5	661.2	568.8	511.8	467.8	452.4	456.9	467.8	470.1
27.5°	10308.1	6855.2	1197.1	566.7	494.2	448.1	415.1	404.1	415.1	430.5	434.9
30°	10108.2	6093.1	854.5	489.8	419.5	386.6	366.8	366.8	382.1	410.7	417.4
32.5°	9954.5	5355.1	658.9	432.8	364.6	336.1	325.0	336.1	360.2	388.7	395.3
35°	9934.6	4746.6	557.8	386.6	325.0	296.5	292.0	311.9	336.1	358.1	362.5
37.5°	10086.3	4184.2	503.1	349.3	290.0	263.7	259.3	283.3	307.5	333.9	340.5
40°	10373.9	3742.8	463.4	314.0	261.3	232.8	224.0	241.6	274.5	309.6	318.4
42.5°	10747.4	3378.2	419.5	279.0	232.8	193.2	182.3	202.1	237.2	274.5	285.5
45°	11103.2	3064.1	371.2	239.4	195.6	149.4	144.9	171.3	189.0	226.3	235.0
47.5°	11298.7	2787.4	329.5	195.6	151.5	120.8	120.8	127.4	144.9	189.0	197.6
50°	11232.9	2565.5	285.5	144.9	105.5	92.3	92.3	90.1	116.4	151.5	158.1
52.5°	11101.1	2438.1	246.0	112.0	72.6	65.8	59.3	65.8	81.2	96.7	98.9
55°	11081.2	2416.1	206.5	90.1	50.6	43.9	33.0	33.0	33.0	30.7	26.4
57.5°	11235.0	2451.3	173.6	72.6	37.3	28.6	17.5	0.0	0.0	0.0	0.0
60°	11393.2	2488.7	149.4	50.6	26.4	15.5	2.2	0.0	0.0	0.0	0.0
62.5°	11129.6	2405.1	125.3	30.7	19.8	6.6	0.0	0.0	0.0	0.0	0.0
65°	9776.6	2047.1	98.9	22.0	13.1	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	6954.0	1370.6	65.8	13.1	2.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	3173.9	573.3	41.7	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	678.7	178.0	28.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	138.3	129.5	11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	43.9	204.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	26.4	147.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	4.4	22.0	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)