

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: P190948

Luminaire Tested: **GLEON-AF-10-LED-E1-AFL-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190948
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-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 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: 54122.3 lumens
Efficiency: N/A
Efficacy: 84.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

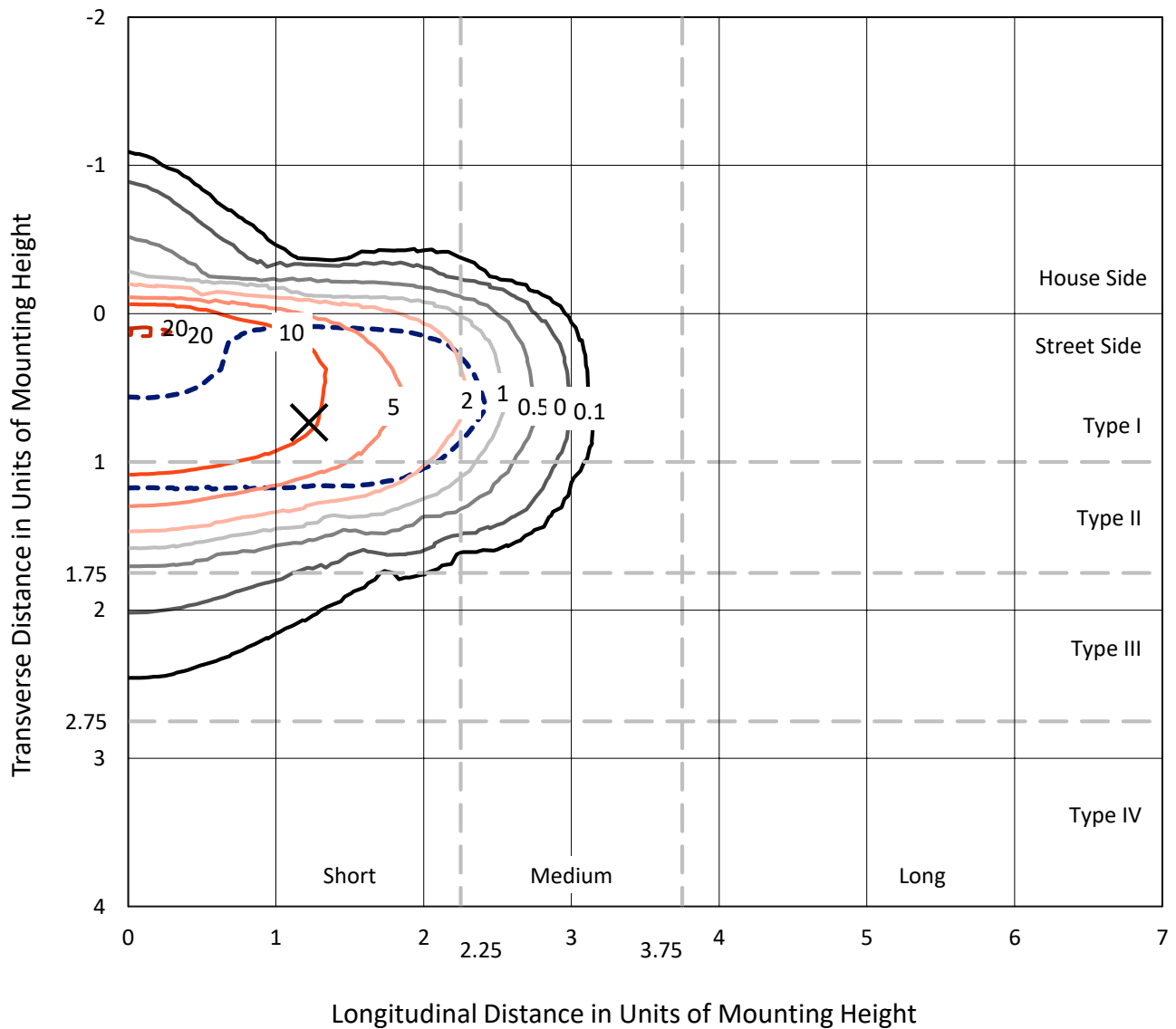
Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

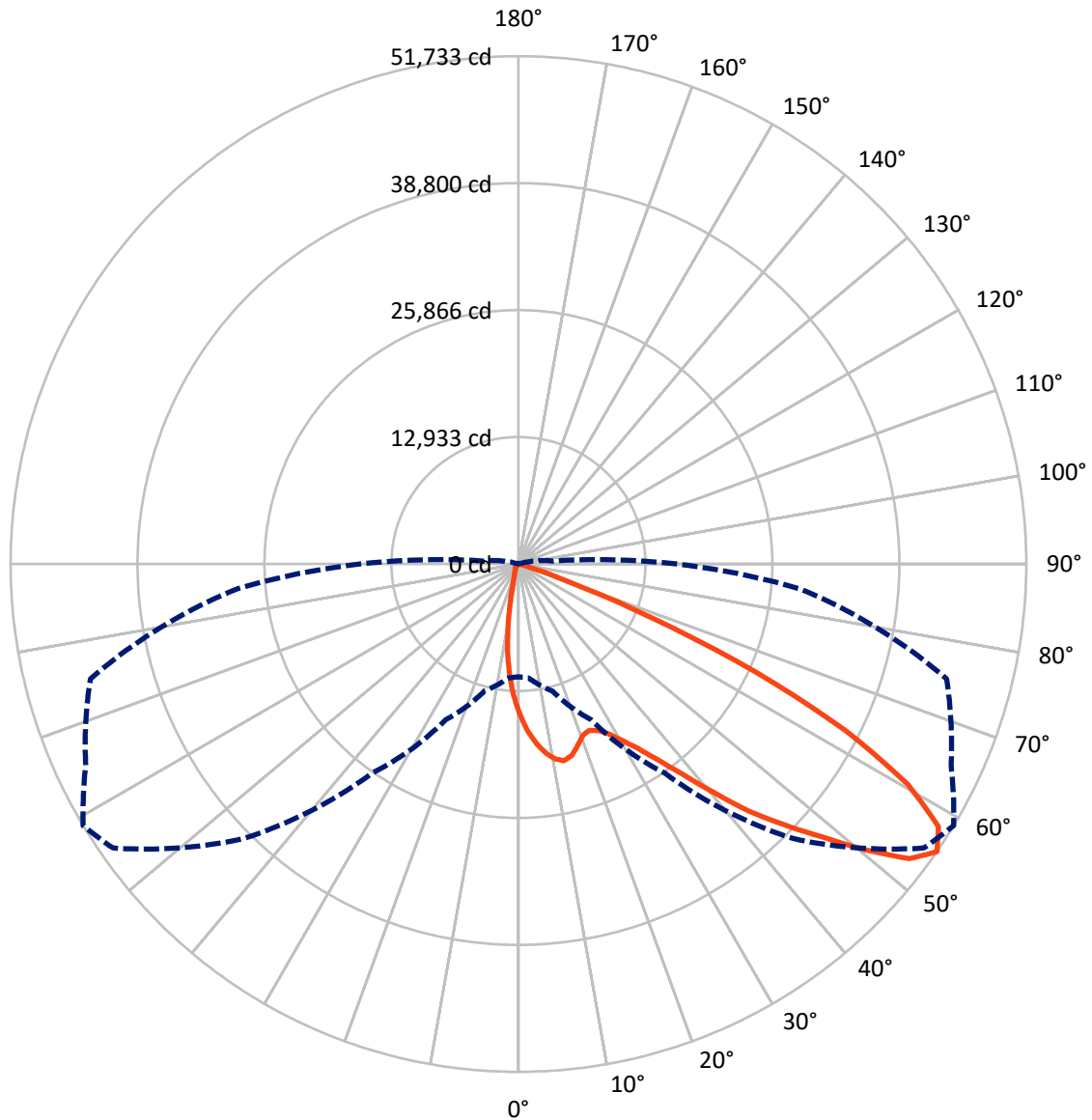
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 21.1 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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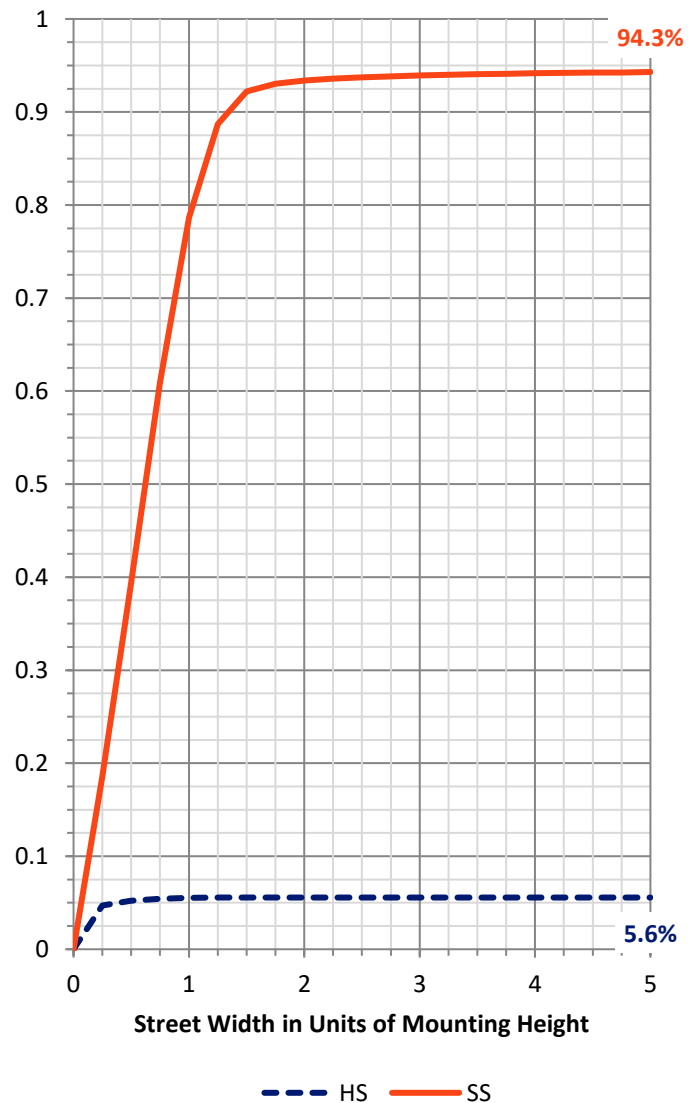
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3023.0	0.0	3023.0
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	51099.2	0.0	51099.2
	% Fixture	94.4	0.0	94.4
Total	Lumens	54122.3	0.0	54122.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1276.1	2.4
10°-20°	3055.4	5.6
20°-30°	5199.1	9.6
30°-40°	8941.2	16.5
40°-50°	13804.3	25.5
50°-60°	13877.7	25.6
60°-70°	7116.6	13.1
70°-80°	771.2	1.4
80°-90°	80.6	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°	54122.3	100.0
0°-180°	54122.3	100.0

Coefficient of Utilization



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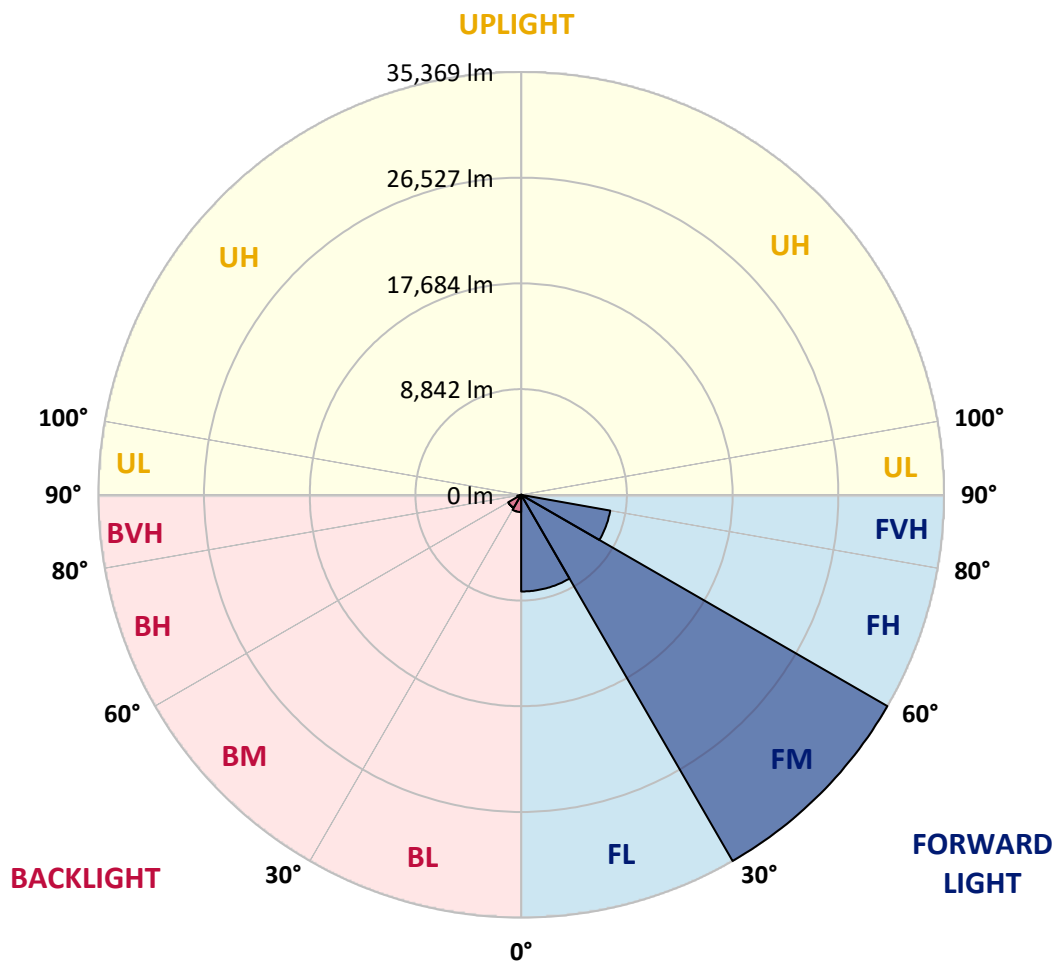
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	8087.6	14.9			
FM	(30°-60°)	35368.7	65.3			
FH	(60°-80°)	7564.0	14.0			G4/12000
FVH	(80°-90°)	79.0	0.1			G1/100
BL	(0°-30°)	1442.9	2.7	B3/2500		
BM	(30°-60°)	1254.6	2.3	B2/2500		
BH	(60°-80°)	323.9	0.6	B1/500		G1/500
BVH	(80°-90°)	1.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	15235.2	15235.2	15235.2	15235.2	15235.2	15235.2	15235.2	15235.2	15235.2	15235.2	15235.2
2.5°	18026.7	17835.1	17777.7	17739.3	17563.7	17343.2	17043.0	16902.5	16615.0	16151.9	15583.3
5°	19678.0	19642.9	19515.1	19444.9	19256.4	18943.4	18464.4	18234.4	17777.7	16998.3	15979.4
7.5°	18956.2	19176.5	19352.3	19646.1	20016.6	20003.8	19601.4	19361.8	18850.8	17822.4	16420.2
10°	16167.8	16346.8	16634.2	17301.7	18662.3	19863.2	20336.0	20163.5	19754.7	18579.3	16845.0
12.5°	15621.7	15602.6	15653.6	15848.5	16560.8	18272.7	20211.5	20559.6	20476.5	19272.4	17247.5
15°	15912.3	15890.0	15883.6	15950.7	16123.1	16845.0	19275.6	20275.3	20917.3	19914.4	17589.2
17.5°	16726.8	16631.0	16579.9	16525.6	16474.5	16653.3	18151.3	19480.1	20984.4	20476.5	17873.4
20°	18122.6	17962.9	17774.4	17467.8	17180.4	17091.0	17678.6	18662.3	20744.8	20904.5	18058.7
22.5°	19876.0	19671.7	19345.8	18786.9	18202.4	17863.9	17911.8	18403.6	20387.1	21370.9	18144.9
25°	21846.8	21584.9	21150.4	20374.3	19515.1	18914.7	18601.6	18774.1	20224.2	21917.0	18243.9
27.5°	23957.9	23667.3	23098.7	22041.6	21067.4	20256.2	19617.3	19595.0	20502.1	22632.5	18403.6
30°	26050.0	26005.3	25264.3	24146.4	22856.0	21869.1	20949.2	20831.1	21278.2	23622.6	18719.8
32.5°	28841.5	28506.2	27599.1	26449.2	24960.8	23775.9	22686.8	22412.0	22469.5	24775.6	19208.6
35°	32361.3	31994.0	30716.3	29129.0	27464.9	26066.0	24861.8	24488.1	24347.7	26663.2	20032.5
37.5°	34635.4	34629.0	33827.3	32211.2	30425.7	28883.0	27573.5	27135.9	26851.6	28943.8	21310.1
40°	34696.0	34846.2	34951.6	34935.6	33664.4	32243.1	31080.5	30540.7	29879.6	31990.7	22961.5
42.5°	32834.0	33220.4	34149.9	35727.7	36481.5	35916.2	34935.6	34405.4	33421.6	35251.8	24973.6
45°	30317.2	30585.4	32211.2	35117.7	38008.2	39557.3	38809.9	37861.3	36564.6	38653.4	26778.2
47.5°	29189.7	29237.6	30288.4	33479.1	38123.2	42540.4	42994.0	41451.3	39419.9	41393.8	28190.0
50°	25820.0	25906.2	27356.4	30639.7	36775.4	43949.0	47197.3	45734.4	42534.1	43505.1	28704.2
52.5°	19460.8	19582.2	21421.9	25973.3	33070.4	43348.6	50206.0	49851.5	45945.2	44536.7	28732.9
55°	11482.3	11642.0	13398.7	17483.8	26011.7	39528.6	50429.5	51732.7	48637.7	45146.7	28688.2
57.5°	5362.7	5474.4	6480.6	9007.0	16177.5	31240.2	47063.1	50442.3	50123.0	45469.3	29004.4
60°	2849.0	2880.9	3123.7	3899.8	7311.0	19809.0	40493.1	45549.1	48768.7	45916.5	29390.9
62.5°	2178.3	2187.9	2175.1	2267.7	3072.6	8793.0	30607.8	37446.0	43316.5	45581.2	28962.9
65°	1887.7	1903.6	1814.2	1791.8	1970.7	3136.5	18183.3	26692.0	34038.1	41055.3	26046.8
67.5°	1692.8	1699.2	1590.6	1498.0	1529.9	1696.0	7173.6	14612.4	22530.3	30093.6	18879.6
70°	1558.7	1552.2	1434.1	1287.2	1245.6	1159.4	2280.5	5356.3	10766.9	15260.8	8780.2
72.5°	1379.8	1383.0	1325.5	1133.8	1034.8	811.3	1057.2	1561.8	3213.1	4158.5	2056.9
75°	1223.2	1207.3	1137.0	1015.7	852.8	533.4	523.9	696.3	990.1	983.8	444.0
77.5°	884.8	868.8	891.1	833.6	654.8	344.9	261.9	335.3	402.4	389.6	124.6
80°	648.3	638.8	574.9	693.0	578.1	236.4	162.9	178.8	207.7	175.6	38.4
82.5°	444.0	440.8	405.6	383.3	329.0	143.7	102.2	111.8	134.1	99.0	19.1
85°	70.3	79.9	293.9	233.1	194.9	63.8	70.3	76.6	89.4	54.3	6.3
87.5°	0.0	0.0	137.4	121.3	38.4	25.6	41.5	44.7	44.7	28.7	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°	15235.2	15235.2	15235.2	15235.2	15235.2	15235.2	15235.2	15235.2	15235.2	15235.2	15235.2
2.5°	15292.7	14973.3	14382.5	13772.4	13207.0	12533.1	12070.0	11721.9	11319.5	11210.8	11447.2
5°	15398.1	14794.4	13523.3	12140.3	10840.3	9399.9	8298.0	7426.0	6637.1	6368.8	6611.5
7.5°	15564.2	14666.7	12593.9	10316.6	8055.2	5806.7	4267.1	3254.6	2609.4	2417.8	2520.0
10°	15730.3	14481.4	11517.4	8157.4	5065.7	2826.6	1839.7	1469.3	1331.9	1303.1	1319.1
12.5°	15867.6	14232.3	10204.8	5800.2	2708.5	1514.0	1204.1	1143.5	1124.3	1124.3	1130.7
15°	15950.7	13855.5	8649.3	3689.1	1558.7	1143.5	1050.8	1031.6	1031.6	1034.8	1041.3
17.5°	15941.1	13376.3	6946.9	2232.6	1165.8	1012.5	958.2	942.2	939.1	945.4	948.6
20°	15822.9	12750.4	5238.1	1472.4	1015.7	923.0	868.8	840.0	836.8	843.2	849.6
22.5°	15599.4	11977.4	3746.6	1133.8	916.7	836.8	769.8	744.2	744.2	750.5	757.0
25°	15327.9	11032.0	2561.6	961.4	827.3	744.2	680.4	658.0	664.3	680.4	683.5
27.5°	14989.3	9968.3	1740.8	824.1	718.6	651.6	603.6	587.7	603.6	626.0	632.4
30°	14698.7	8860.1	1242.5	712.3	610.1	562.1	533.4	533.4	555.8	597.3	606.8
32.5°	14475.1	7786.9	958.2	629.2	530.2	488.7	472.7	488.7	523.9	565.3	574.9
35°	14446.3	6902.2	811.3	562.1	472.7	431.2	424.8	453.6	488.7	520.6	527.0
37.5°	14666.7	6084.5	731.4	507.8	421.6	383.3	376.9	412.0	447.1	485.5	495.1
40°	15085.1	5442.5	673.9	456.7	380.1	338.6	325.8	351.4	399.3	450.3	463.1
42.5°	15628.1	4912.3	610.1	405.6	338.6	281.1	265.1	293.9	344.9	399.3	415.2
45°	16145.5	4455.6	539.8	348.1	284.3	217.2	210.8	249.1	274.7	329.0	341.8
47.5°	16429.8	4053.1	479.0	284.3	220.3	175.6	175.6	185.3	210.8	274.7	287.4
50°	16334.0	3730.6	415.2	210.8	153.3	134.1	134.1	130.9	169.3	220.3	230.0
52.5°	16142.3	3545.3	357.7	162.9	105.4	95.9	86.2	95.9	118.2	140.6	143.7
55°	16113.5	3513.3	300.2	130.9	73.4	63.8	47.9	47.9	47.9	44.7	38.4
57.5°	16337.1	3564.5	252.4	105.4	54.3	41.5	25.6	0.0	0.0	0.0	0.0
60°	16567.1	3618.8	217.2	73.4	38.4	22.4	3.2	0.0	0.0	0.0	0.0
62.5°	16183.8	3497.4	182.1	44.7	28.7	9.6	0.0	0.0	0.0	0.0	0.0
65°	14216.4	2976.8	143.7	31.9	19.1	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	10112.1	1993.0	95.9	19.1	3.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	4615.2	833.6	60.7	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	986.9	258.7	41.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	201.2	188.4	16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	63.8	297.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	38.4	214.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	6.3	31.9	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)