

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: P382642

Luminaire Tested: **GLEON-SA0B-735-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382642
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA0B-735-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37483.6 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G5

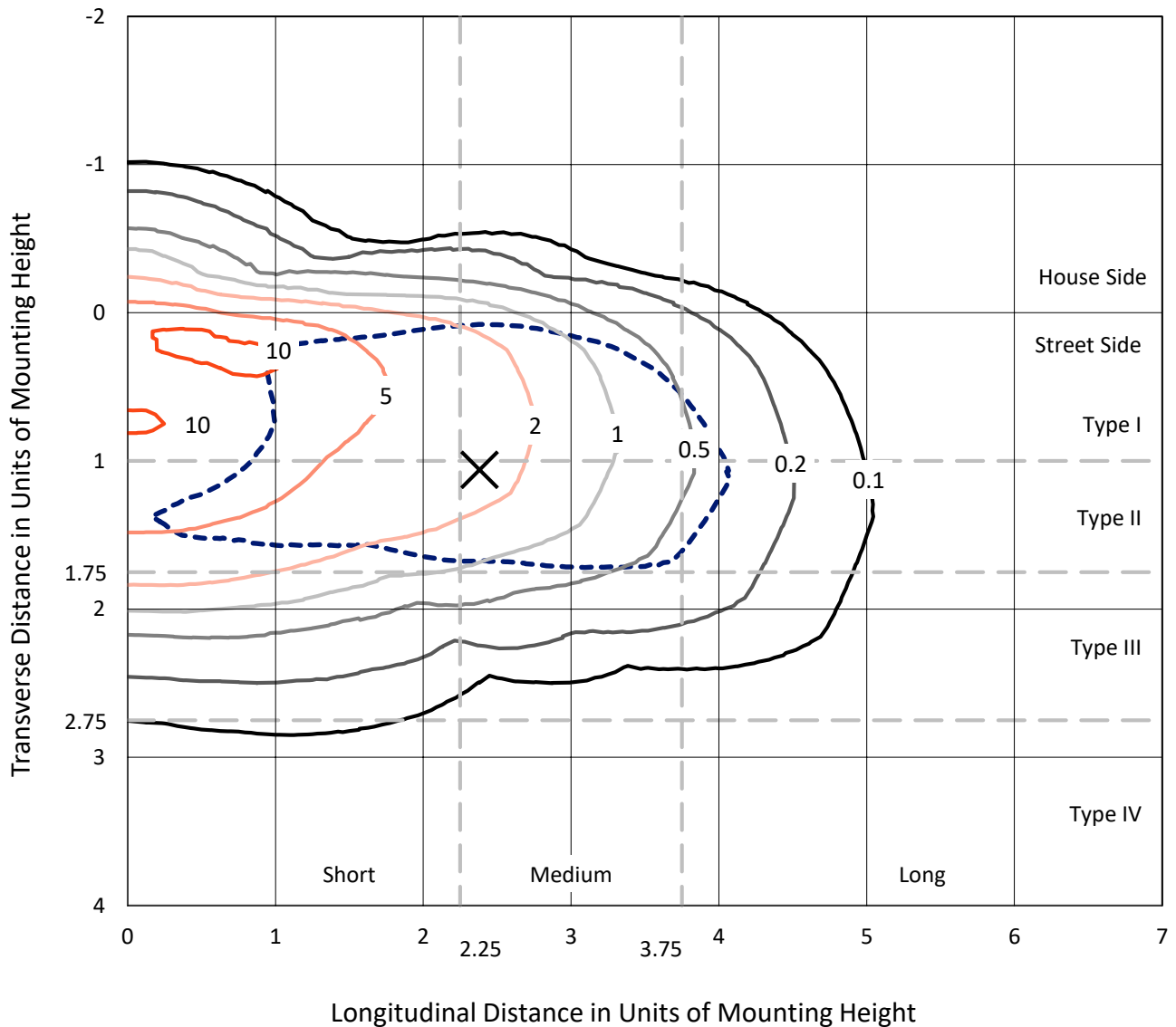
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

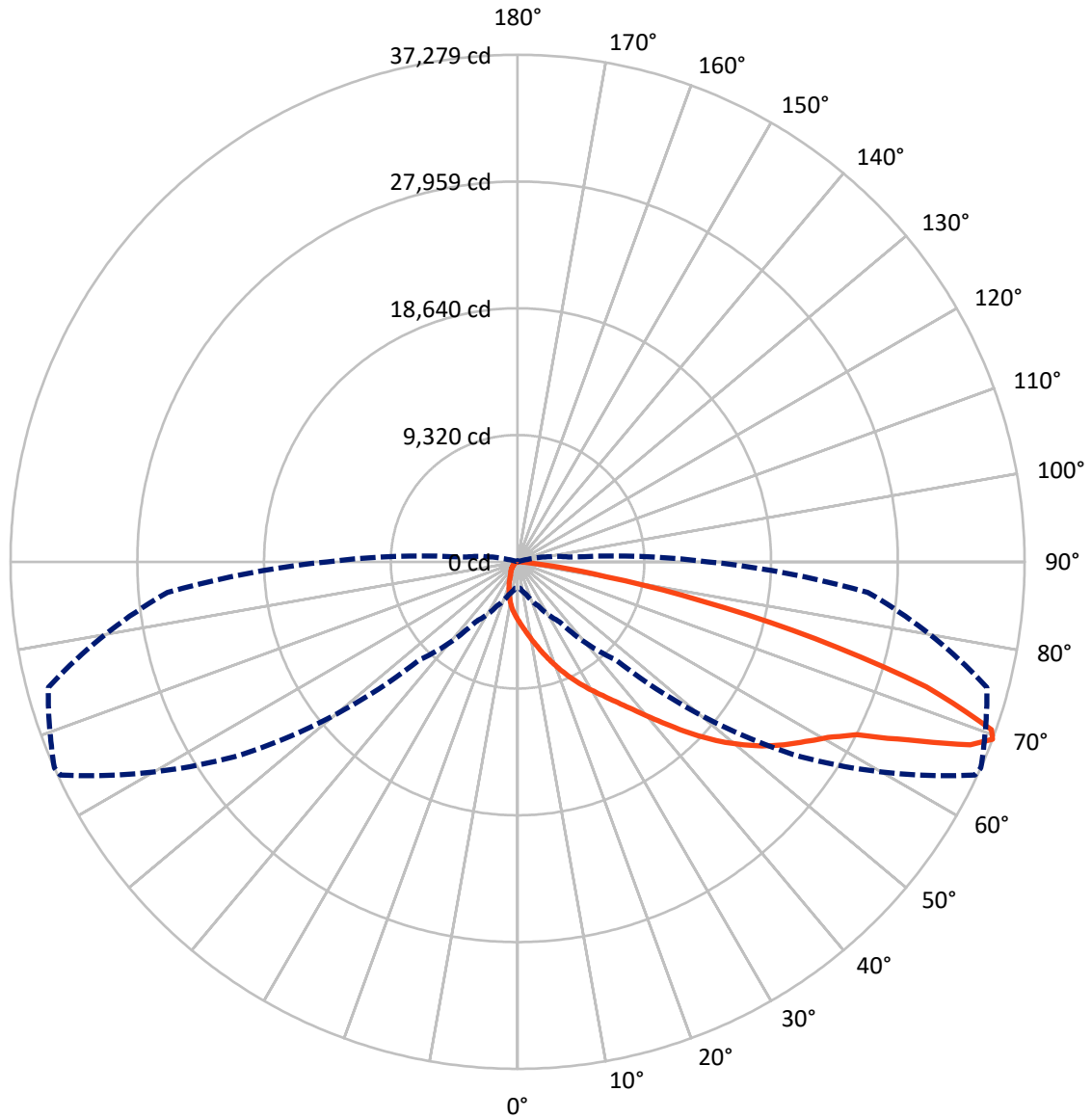
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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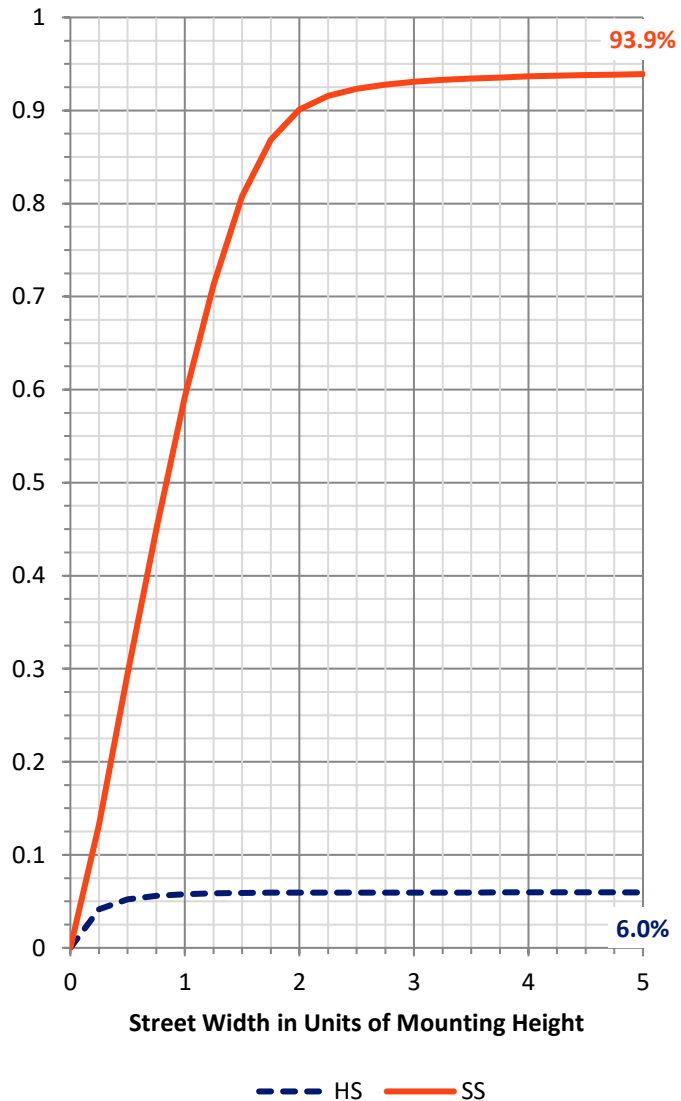
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2248.5	0.0	2248.5
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	35235.1	0.0	35235.1
	% Fixture	94.0	0.0	94.0
Total	Lumens	37483.6	0.0	37483.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	412.3	1.1
10°-20°	1227.2	3.3
20°-30°	2137.0	5.7
30°-40°	3749.4	10.0
40°-50°	6275.9	16.7
50°-60°	9225.0	24.6
60°-70°	9471.7	25.3
70°-80°	4675.9	12.5
80°-90°	309.2	0.8
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°	37483.6	100.0
0°-180°	37483.6	100.0

Coefficient of Utilization

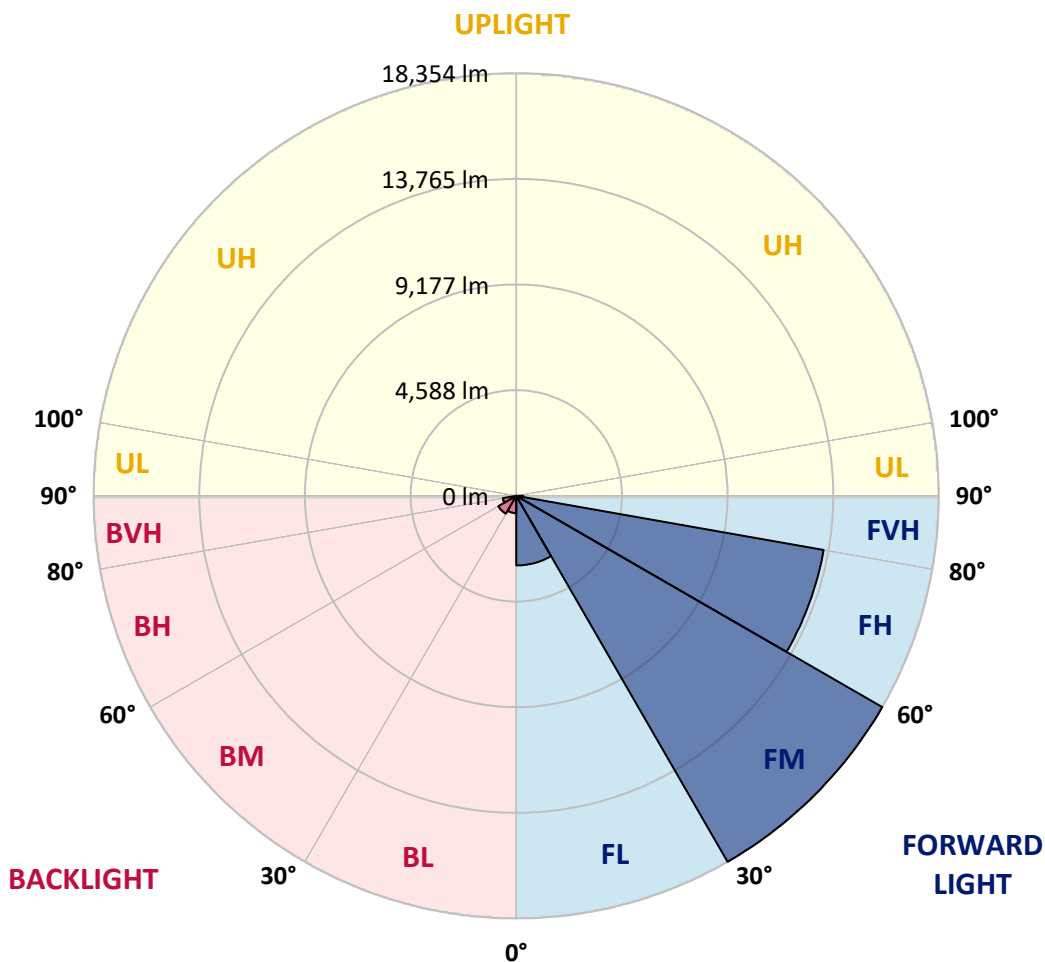


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3024.6	8.1			
FM (30°-60°)	18353.8	49.0			
FH (60°-80°)	13555.1	36.2			G5
FVH (80°-90°)	301.7	0.8			G3/500
BL (0°-30°)	752.0	2.0	B2/1000		
BM (30°-60°)	896.5	2.4	B1/1000		
BH (60°-80°)	592.5	1.6	B2/1000		G2/1000
BVH (80°-90°)	7.5	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-G5
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4265.7	4265.7	4265.7	4265.7	4265.7	4265.7	4265.7	4265.7	4265.7	4265.7	4265.7
2.5°	5020.7	4999.2	4990.4	4951.2	4883.5	4831.9	4732.2	4616.5	4595.1	4483.0	4345.9
5°	5672.3	5654.4	5642.0	5586.8	5517.4	5387.4	5205.8	4990.4	4949.4	4735.8	4461.6
7.5°	6126.2	6158.3	6158.3	6122.7	6035.4	5937.5	5715.0	5421.2	5369.6	5042.0	4616.5
10°	6391.5	6430.7	6460.9	6491.2	6478.7	6439.6	6229.5	5898.4	5836.1	5401.7	4796.3
12.5°	6416.4	6455.6	6541.0	6667.5	6790.3	6879.3	6747.6	6427.1	6355.9	5818.3	5010.0
15°	6277.6	6318.5	6450.2	6696.0	6993.3	7253.2	7296.0	7012.9	6939.8	6315.0	5277.0
17.5°	6035.4	6062.1	6250.9	6590.9	7057.4	7534.5	7792.7	7641.3	7573.7	6882.9	5574.3
20°	5855.6	5875.2	6040.8	6405.8	7018.2	7710.8	8262.6	8308.9	8237.8	7491.8	5896.6
22.5°	6163.6	6199.3	6204.6	6377.3	6911.3	7798.0	8675.7	8966.0	8912.5	8138.1	6213.5
25°	7005.7	7046.7	6911.3	6804.6	7002.2	7837.2	9030.0	9638.9	9596.2	8834.1	6532.2
27.5°	8118.4	8161.2	7986.7	7668.0	7477.5	7984.9	9345.1	10322.6	10320.8	9571.3	6875.8
30°	9211.6	9254.4	9076.3	8757.6	8319.7	8403.3	9617.6	11038.3	11049.0	10331.4	7240.7
32.5°	10358.2	10411.5	10228.2	9818.7	9361.1	9126.2	10000.3	11757.5	11818.1	11212.8	7652.0
35°	11661.4	11668.5	11410.3	10981.3	10454.3	10092.9	10614.5	12564.1	12708.3	12304.1	8173.7
37.5°	12939.7	12991.4	12779.4	12102.9	11618.6	11209.2	11527.9	13571.7	13776.5	13637.6	8855.6
40°	13886.9	13995.5	13965.2	13235.2	12775.9	12483.9	12662.0	14769.9	15029.9	15190.1	9715.5
42.5°	14481.5	14563.3	14702.2	14262.6	13845.9	13893.9	14000.8	16165.7	16486.2	16959.8	10703.6
45°	15163.4	15202.6	15318.3	15124.2	14842.9	15327.1	15421.5	17737.8	18074.3	18863.0	11800.3
47.5°	15996.6	16089.1	16121.2	15943.2	15815.0	16594.8	16790.6	19167.4	19639.2	20901.5	12961.1
50°	17057.7	17082.6	17137.8	17022.1	16893.9	17684.4	18019.1	20668.2	21097.3	22947.1	14105.9
52.5°	18095.6	18184.6	18376.9	18304.0	18252.3	18611.9	19114.0	22021.3	22500.2	24652.8	15248.9
55°	18394.7	18471.3	19135.4	19589.3	20009.5	19755.0	20160.8	23233.7	23751.9	26176.7	16349.1
57.5°	17200.1	17355.0	18505.1	19687.2	21430.3	21531.7	21599.4	24478.3	24942.9	27344.6	17493.9
60°	14180.6	14210.9	16098.1	18125.9	21195.2	23082.4	23700.2	25815.3	26205.2	28432.4	18864.8
62.5°	9019.3	9327.3	11397.9	14260.7	18709.9	22858.1	26240.8	27837.8	27980.2	29737.4	20830.2
65°	4296.0	4495.5	5987.3	8811.0	13552.2	19986.4	27994.5	31496.5	31560.6	32324.3	23456.3
67.5°	2378.6	2474.7	3185.1	4742.9	7922.6	14134.3	27285.9	35829.8	35890.4	34966.4	25760.1
69°	1860.5	1942.4	2501.4	3575.0	5371.4	10158.8	24691.9	37099.3	37279.0	35723.0	25842.0
70°	1579.2	1659.3	2154.2	3019.5	4319.1	7849.6	21978.7	36784.1	36974.6	35651.8	25231.3
72.5°	966.8	1013.1	1435.0	2125.8	2894.9	3948.8	13553.9	31108.3	31430.6	32703.6	21684.8
75°	651.6	676.6	897.3	1467.0	2070.6	2033.2	7041.4	21927.0	22624.9	25439.6	16016.2
77.5°	466.4	489.6	601.8	949.0	1451.0	1342.4	3188.6	13627.0	13776.5	15257.7	8734.5
80°	265.3	286.6	425.5	564.3	984.6	895.5	1267.6	6509.0	6583.8	6542.8	2916.2
82.5°	138.9	156.7	233.3	372.1	632.1	585.8	527.0	2179.2	2189.9	1821.3	639.1
85°	26.7	32.0	115.7	254.6	325.8	254.6	215.5	511.0	521.7	461.1	158.5
87.5°	0.0	1.8	46.3	57.0	64.1	65.9	69.4	99.7	106.8	144.2	42.8
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°	4265.7	4265.7	4265.7	4265.7	4265.7	4265.7	4265.7	4265.7	4265.7	4265.7	4265.7
2.5°	4285.3	4221.2	4098.4	3956.0	3845.6	3737.0	3651.6	3562.5	3530.5	3514.4	3512.7
5°	4328.1	4192.8	3932.8	3665.7	3446.8	3240.3	3092.5	2951.9	2885.9	2855.8	2843.3
7.5°	4399.3	4182.1	3763.7	3356.0	3040.9	2782.7	2578.0	2424.8	2348.3	2316.3	2303.8
10°	4483.0	4167.8	3566.1	3028.4	2626.0	2359.0	2156.1	2004.7	1921.0	1885.5	1867.6
12.5°	4580.9	4142.9	3338.2	2697.3	2271.8	2004.7	1759.0	1572.1	1475.9	1435.0	1415.4
15°	4702.0	4118.0	3099.6	2385.7	1960.2	1634.4	1365.6	1239.1	1219.6	1212.4	1214.2
17.5°	4821.2	4078.8	2839.6	2077.7	1632.6	1276.5	1139.5	1132.3	1135.8	1135.8	1135.8
20°	4928.1	3989.8	2556.6	1814.2	1321.0	1077.1	1048.6	1036.2	1027.3	1020.1	1011.3
22.5°	5011.7	3870.5	2284.2	1552.5	1078.9	986.3	941.8	902.7	870.6	849.2	838.6
25°	5068.7	3712.0	2035.0	1301.5	970.3	897.3	817.2	751.3	701.5	671.2	658.7
27.5°	5111.4	3541.2	1812.4	1089.5	895.5	794.1	689.0	610.6	559.0	532.3	521.7
30°	5141.7	3347.1	1616.6	957.8	811.8	685.4	573.3	496.7	459.3	445.1	438.0
32.5°	5170.2	3131.7	1431.4	895.5	733.5	585.8	480.7	422.0	398.8	381.0	375.7
35°	5241.4	2932.2	1255.2	829.6	653.4	500.2	413.0	370.3	347.2	336.5	332.9
37.5°	5410.5	2784.5	1086.0	762.0	573.3	432.6	361.4	331.2	309.7	299.1	295.6
40°	5682.9	2709.7	943.6	689.0	494.9	381.0	327.6	299.1	275.9	259.9	256.4
42.5°	6083.5	2720.4	843.9	616.0	432.6	340.0	295.6	261.7	236.8	222.5	219.0
45°	6569.6	2798.7	774.5	544.8	381.0	308.0	259.9	224.3	201.2	188.7	185.2
47.5°	7096.5	2925.2	717.5	480.7	340.0	277.7	224.3	187.0	167.4	156.7	154.9
50°	7652.0	3048.0	658.7	418.4	304.4	247.5	188.7	154.9	138.9	130.0	126.4
52.5°	8214.6	3190.5	605.3	361.4	274.2	211.8	156.7	126.4	113.9	106.8	103.2
55°	8819.9	3297.2	553.7	316.9	243.9	179.8	130.0	105.1	94.4	85.4	83.7
57.5°	9532.1	3462.8	500.2	274.2	208.3	149.5	106.8	83.7	74.8	65.9	64.1
60°	10493.5	3656.9	443.3	242.1	170.9	122.9	87.2	67.6	57.0	49.8	48.1
62.5°	11761.1	3872.3	372.1	211.8	138.9	99.7	69.4	53.4	41.0	32.0	32.0
65°	13368.7	4223.0	304.4	178.0	113.9	81.9	53.4	39.1	23.1	14.3	14.3
67.5°	14307.0	4283.5	245.6	146.0	92.6	69.4	44.5	26.7	7.1	1.8	0.0
69°	14006.1	3932.8	208.3	124.6	80.1	65.9	41.0	19.6	3.5	0.0	0.0
70°	13440.0	3596.3	183.4	110.4	73.0	62.3	39.1	14.3	3.5	0.0	0.0
72.5°	11105.9	2560.2	138.9	81.9	53.4	55.1	35.6	8.9	3.5	0.0	0.0
75°	8090.0	1556.1	99.7	57.0	33.8	41.0	25.0	3.5	1.8	0.0	0.0
77.5°	4500.8	733.5	62.3	32.0	21.3	25.0	12.5	0.0	0.0	0.0	0.0
80°	1461.7	199.4	28.5	17.8	12.5	14.3	5.3	0.0	0.0	0.0	0.0
82.5°	270.6	57.0	16.0	8.9	3.5	3.5	0.0	0.0	0.0	0.0	0.0
85°	58.8	23.1	8.9	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	19.6	7.1	1.8	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)