

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: P383600

Luminaire Tested: **GLEON-SA8D-735-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383600
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA8D-735-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44552.2 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

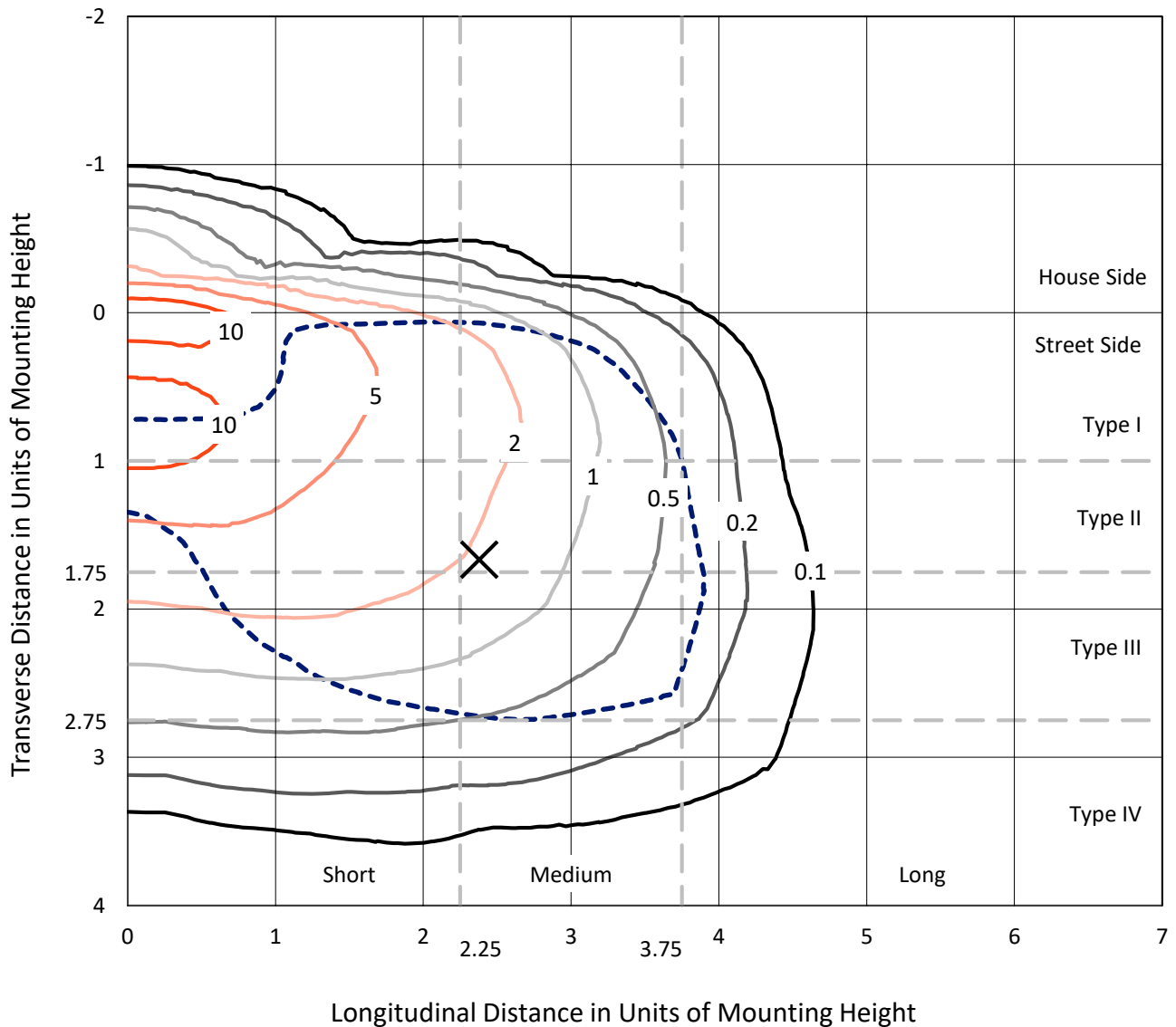
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

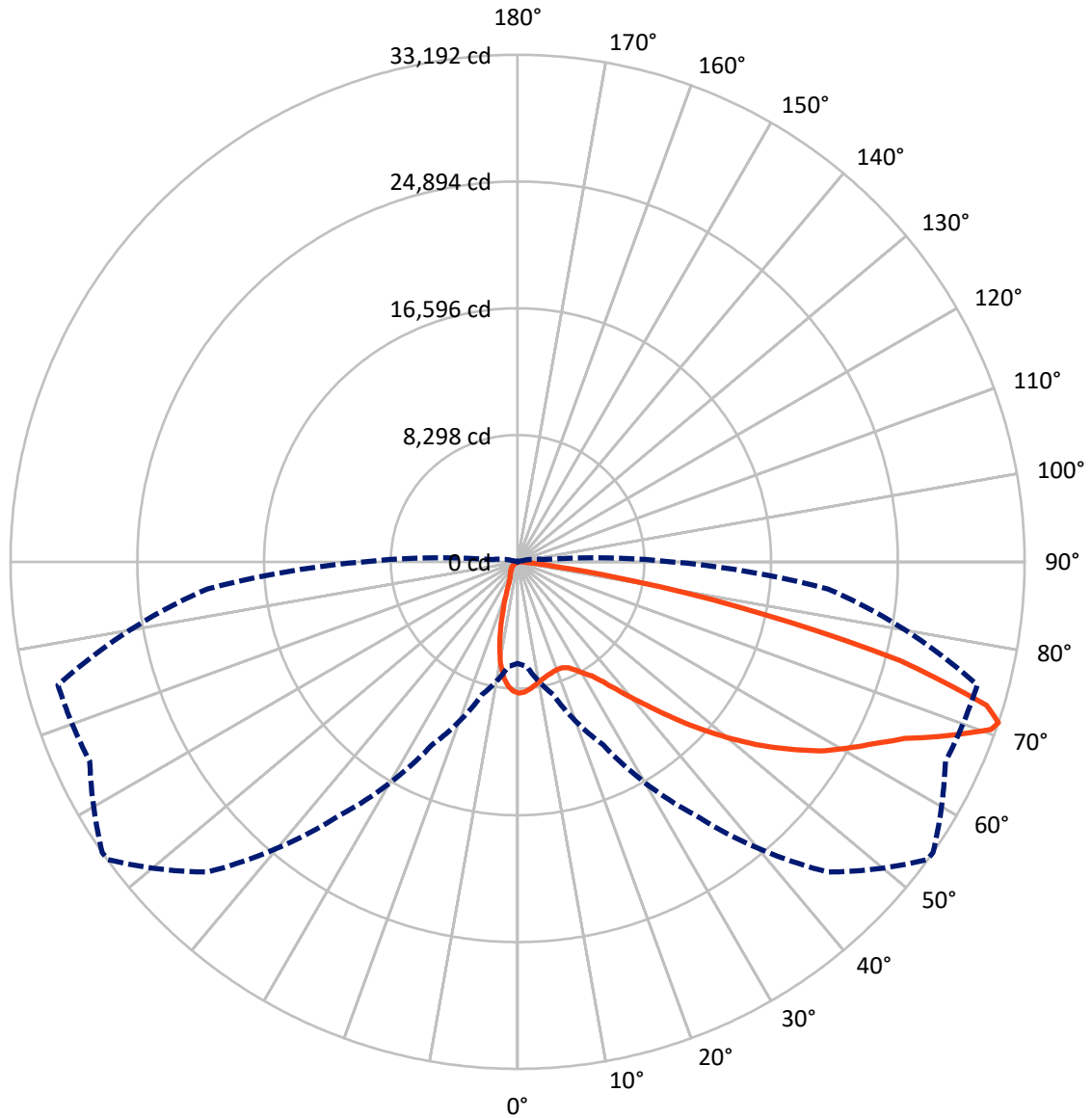
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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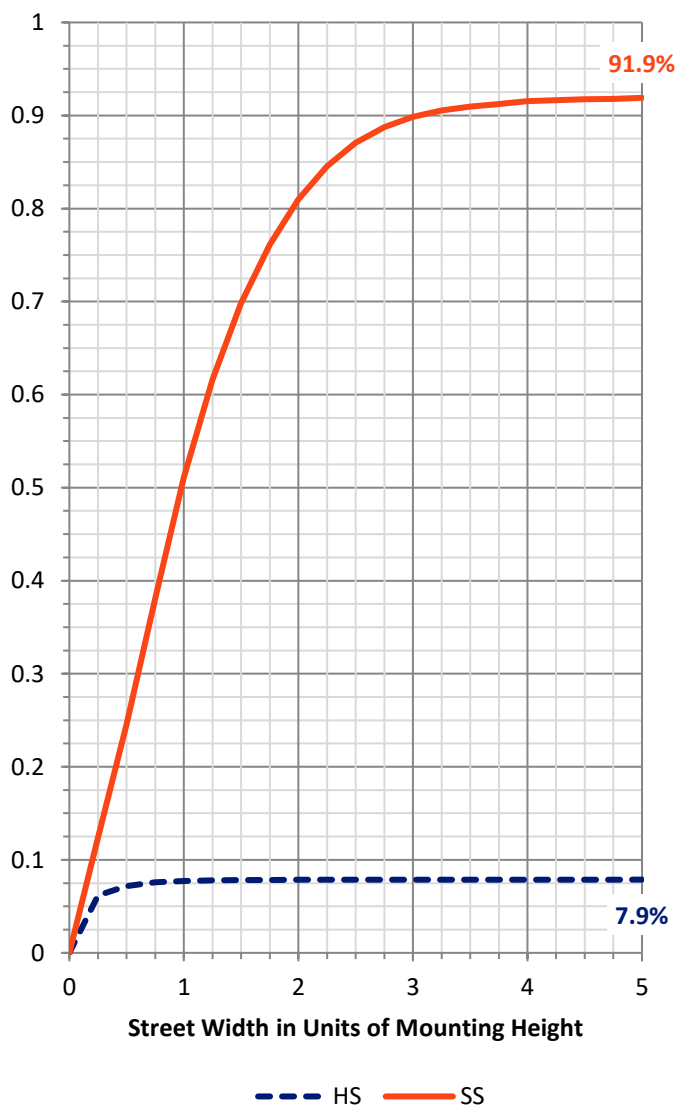
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3527.3	0.0	3527.3
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	41024.9	0.0	41024.9
	% Fixture	92.1	0.0	92.1
Total	Lumens	44552.2	0.0	44552.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	732.6	1.6
10°-20°	1653.9	3.7
20°-30°	2657.8	6.0
30°-40°	4515.8	10.1
40°-50°	7009.1	15.7
50°-60°	9423.5	21.2
60°-70°	11528.0	25.9
70°-80°	6740.2	15.1
80°-90°	291.4	0.7
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°	44552.2	100.0
0°-180°	44552.2	100.0

Coefficient of Utilization

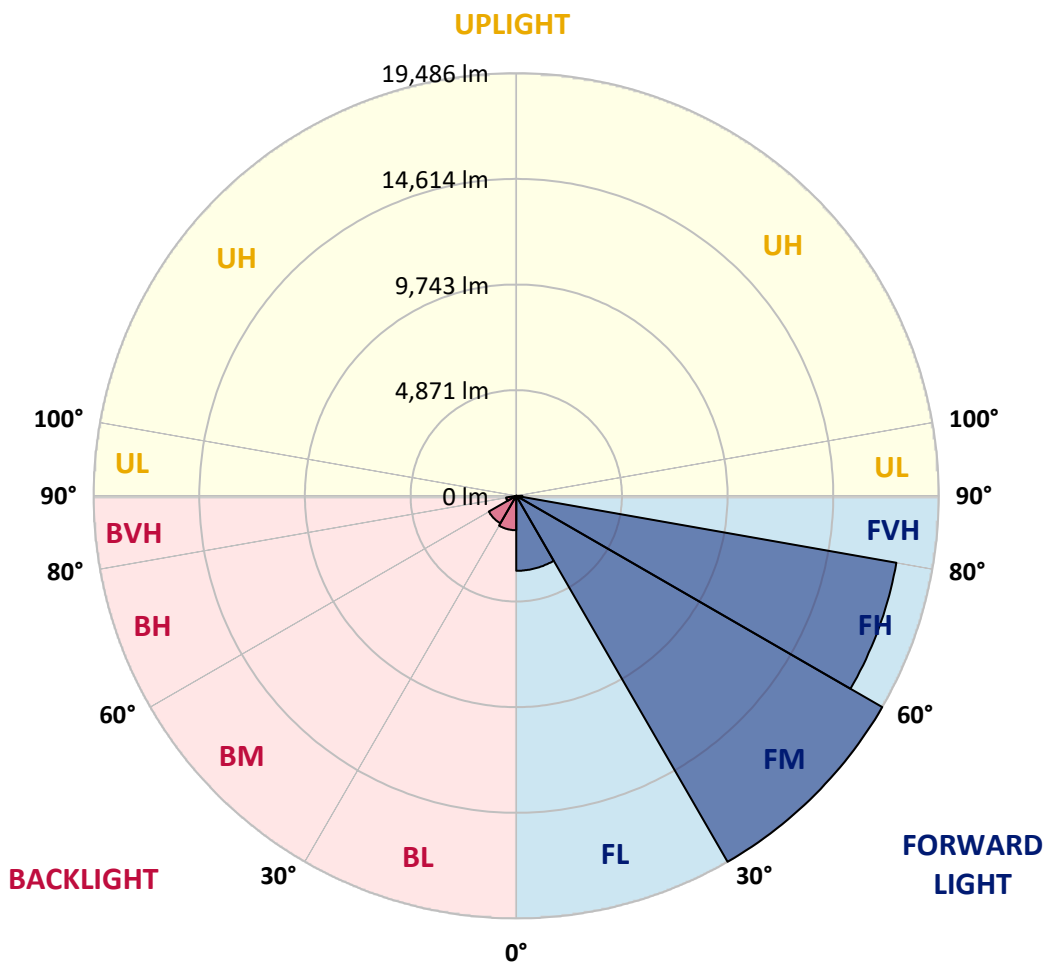


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3456.6	7.8			
FM (30°-60°)	19485.8	43.7			
FH (60°-80°)	17795.7	39.9			G5
FVH (80°-90°)	286.8	0.6			G3/500
BL (0°-30°)	1587.7	3.6	B3/2500		
BM (30°-60°)	1462.5	3.3	B2/2500		
BH (60°-80°)	472.6	1.1	B1/500		G1/500
BVH (80°-90°)	4.6	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-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	8592.0	8592.0	8592.0	8592.0	8592.0	8592.0	8592.0	8592.0	8592.0	8592.0	8592.0
2.5°	8340.0	8350.0	8386.0	8402.0	8440.0	8504.0	8536.1	8538.0	8590.1	8610.0	8626.0
5°	7749.8	7809.9	7869.9	7933.9	8049.9	8204.0	8356.0	8370.0	8538.0	8662.1	8728.0
7.5°	7241.8	7295.8	7367.8	7469.8	7633.8	7875.9	8129.9	8160.0	8478.0	8760.1	8908.1
10°	6719.6	6763.6	6867.6	7017.7	7243.7	7567.8	7909.9	7959.9	8424.0	8892.1	9152.2
12.5°	6161.4	6187.4	6313.5	6529.6	6861.6	7273.7	7723.8	7789.9	8390.0	9044.1	9440.2
15°	5737.4	5749.4	5869.4	6093.4	6473.5	7009.7	7579.8	7659.8	8398.0	9226.2	9754.3
17.5°	5629.3	5635.3	5699.4	5853.4	6189.5	6773.7	7465.8	7563.8	8422.0	9404.3	10070.4
20°	6067.4	6025.4	5959.4	5935.4	6079.5	6631.6	7397.8	7507.8	8454.0	9562.2	10354.4
22.5°	7269.7	7145.7	6871.7	6505.6	6283.5	6641.6	7415.8	7525.8	8556.1	9756.3	10682.5
25°	9054.2	8882.1	8416.0	7695.8	7003.7	6929.7	7565.8	7677.8	8754.1	9988.4	10996.6
27.5°	11084.7	10914.6	10344.5	9316.2	8136.0	7499.8	7909.9	8013.9	9048.1	10194.4	11236.7
30°	13029.1	12981.1	12308.9	11140.7	9560.3	8424.0	8354.0	8442.1	9266.2	10318.5	11426.7
32.5°	14677.5	14601.4	14061.3	12925.1	11190.7	9534.3	8876.2	8902.1	9430.2	10478.5	11674.8
35°	16205.9	16111.9	15637.7	14563.4	12863.1	10890.6	9680.3	9642.3	9788.3	10800.5	12034.8
37.5°	17540.2	17626.2	17100.0	16077.9	14363.4	12300.9	10764.6	10650.6	10348.5	11324.7	12557.0
40°	18656.5	18656.5	18382.4	17530.1	15983.8	13759.2	11990.9	11840.8	11190.7	12132.9	13219.1
42.5°	19058.5	19144.6	19246.6	18764.4	17434.2	15275.6	13357.2	13201.1	12376.9	13279.2	14055.4
45°	19082.6	19218.6	19740.7	19738.7	18744.5	16782.0	14897.6	14823.5	13897.3	14751.5	15091.6
47.5°	18744.5	18914.5	19774.7	20262.8	19782.7	18184.4	16581.9	16490.0	15683.7	16555.9	16175.9
50°	18222.4	18410.4	19410.7	20468.9	20488.9	19404.6	18356.4	18218.4	17650.2	18618.5	17296.1
52.5°	17288.1	17652.2	19084.5	20516.9	20953.0	20458.9	20044.8	19984.8	19850.7	20604.9	18188.4
55°	15289.7	15693.8	18266.3	20532.9	21383.1	21393.1	21627.2	21643.2	21913.3	22461.4	18852.5
57.5°	14345.5	14573.5	16838.0	20608.9	22021.2	22453.4	23239.5	23363.6	23781.7	24223.8	19610.7
60°	13751.3	14021.4	16133.8	20504.9	23023.5	23843.7	24733.9	24775.9	25224.0	26042.3	20636.9
62.5°	13277.2	13543.2	15689.8	20104.8	24149.7	25516.1	26194.3	26198.3	26534.3	28208.8	21803.2
65°	12106.9	12331.0	14791.5	19654.7	24893.9	27170.4	27890.6	27864.6	28138.7	30493.3	23157.5
67.5°	10414.5	10586.6	12957.1	17948.3	24613.9	28674.8	30451.3	30365.3	30033.2	32467.8	23689.6
70°	8051.9	8114.0	10212.5	14957.6	21989.3	29253.0	32925.8	32881.9	31195.5	32113.7	21739.2
71°	6655.6	6859.6	9000.1	13201.1	20230.8	28718.9	33165.9	33191.9	30903.3	31149.5	20396.9
72.5°	3864.9	4039.0	6523.5	10138.4	17176.1	26490.3	31921.6	32109.7	29539.1	28332.7	17422.2
75°	828.2	886.2	2418.6	4907.2	9448.2	18566.4	25196.0	25866.2	24075.8	19274.6	10500.5
77.5°	576.2	622.2	1036.3	2226.5	3122.7	9174.2	15651.8	16407.9	14383.5	7243.7	3360.8
80°	456.1	508.2	808.2	1100.3	844.2	2958.7	7331.7	7793.9	4797.2	1616.4	566.1
82.5°	254.0	302.1	630.2	594.1	324.1	562.1	2052.5	2320.6	960.2	326.0	134.0
85°	74.1	90.0	406.1	432.1	138.1	108.1	350.1	434.1	182.0	86.0	60.0
87.5°	0.0	0.0	196.1	166.0	40.0	16.0	32.0	36.1	36.1	36.1	40.0
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°	8592.0	8592.0	8592.0	8592.0	8592.0	8592.0	8592.0	8592.0	8592.0	8592.0	8592.0
2.5°	8626.0	8640.1	8590.1	8524.0	8454.0	8368.0	8278.0	8208.0	8206.0	8171.9	8137.9
5°	8732.0	8724.0	8586.1	8376.0	8127.9	7869.9	7623.8	7345.7	7253.8	7139.7	7101.7
7.5°	8928.1	8872.2	8580.0	8119.9	7575.8	7035.7	6477.5	5915.4	5675.4	5459.3	5421.3
10°	9174.2	9068.2	8542.0	7735.9	6737.6	5741.4	4899.2	4135.0	3798.9	3540.8	3528.9
12.5°	9430.2	9268.2	8436.0	7155.7	5639.3	4239.0	3268.8	2516.6	2236.6	2056.5	2072.5
15°	9698.3	9456.2	8208.0	6373.6	4389.1	2876.7	2008.5	1566.4	1454.3	1408.3	1420.3
17.5°	9972.4	9586.3	7889.9	5431.3	3154.8	1856.5	1390.3	1266.3	1266.3	1276.3	1280.3
20°	10210.4	9656.3	7421.7	4375.0	2138.6	1352.3	1216.3	1198.2	1208.3	1224.3	1226.3
22.5°	10446.5	9660.3	6811.7	3304.8	1496.3	1184.3	1158.3	1150.3	1156.2	1174.3	1176.3
25°	10638.6	9612.3	6047.4	2350.6	1194.2	1116.3	1104.3	1100.3	1104.3	1126.2	1126.2
27.5°	10716.5	9438.3	5115.2	1652.4	1070.3	1040.3	1036.3	1040.3	1046.2	1062.2	1064.3
30°	10724.5	9134.2	4099.0	1196.3	970.2	938.3	946.3	960.2	954.2	950.3	954.2
32.5°	10744.6	8782.1	3108.8	984.3	886.2	836.2	826.2	826.2	802.2	788.2	780.2
35°	10810.6	8368.0	2254.5	884.2	800.2	742.2	704.2	660.2	614.2	590.1	584.2
37.5°	10914.6	7933.9	1614.4	818.2	724.2	658.1	586.1	508.2	442.1	424.1	424.1
40°	11104.6	7485.8	1194.2	766.2	664.2	582.1	474.2	372.1	312.1	302.1	302.1
42.5°	11404.8	7013.7	952.2	720.2	612.1	504.2	362.1	270.1	226.1	220.0	218.1
45°	11716.8	6493.5	832.2	676.1	556.1	414.1	268.1	200.0	174.0	168.1	168.1
47.5°	12028.9	5939.5	774.2	634.2	502.1	322.0	200.0	158.1	146.1	146.1	148.0
50°	12292.9	5361.2	732.2	588.2	432.1	244.1	158.1	134.0	130.0	138.1	140.0
52.5°	12358.9	4793.2	680.1	530.1	346.1	186.0	130.0	118.0	118.0	118.0	118.0
55°	12319.0	4353.0	612.1	458.1	256.1	148.0	112.1	104.1	102.0	102.0	102.0
57.5°	12455.0	4092.9	490.1	356.1	184.1	120.0	98.0	92.0	88.0	86.0	86.0
60°	12729.0	3922.9	350.1	256.1	138.1	100.0	84.0	78.1	72.0	68.0	68.0
62.5°	13093.1	3774.9	260.1	190.0	106.0	80.0	70.1	64.0	56.0	52.0	52.0
65°	13373.2	3510.8	198.0	142.1	80.0	64.0	54.0	52.0	40.0	36.1	34.0
67.5°	12945.1	2930.7	160.0	104.1	60.0	50.0	42.0	40.0	24.0	20.0	20.0
70°	11102.7	2040.5	128.0	76.0	44.0	40.0	34.0	26.0	18.0	16.0	16.0
71°	10068.4	1704.5	116.1	64.0	38.0	38.0	32.0	22.0	16.0	14.0	14.0
72.5°	8364.0	1210.3	98.0	50.0	34.0	40.0	34.0	20.0	16.0	14.0	12.0
75°	4855.1	506.1	68.0	34.0	26.0	48.0	44.0	18.0	12.0	10.0	10.0
77.5°	1460.4	186.0	38.0	22.0	20.0	42.0	50.0	16.0	6.0	2.0	2.0
80°	266.0	80.0	24.0	14.0	14.0	26.0	38.0	8.0	0.0	0.0	0.0
82.5°	94.0	40.0	14.0	8.0	6.0	12.0	18.0	0.0	0.0	0.0	0.0
85°	54.0	28.0	8.0	4.0	0.0	2.0	4.0	0.0	0.0	0.0	0.0
87.5°	36.1	8.0	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)