

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: P383706

Luminaire Tested: **GLEON-SA9D-735-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383706
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-SA9D-735-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1200mA 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: 45969.1 lumens
Efficiency: N/A
Efficacy: 79.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G5

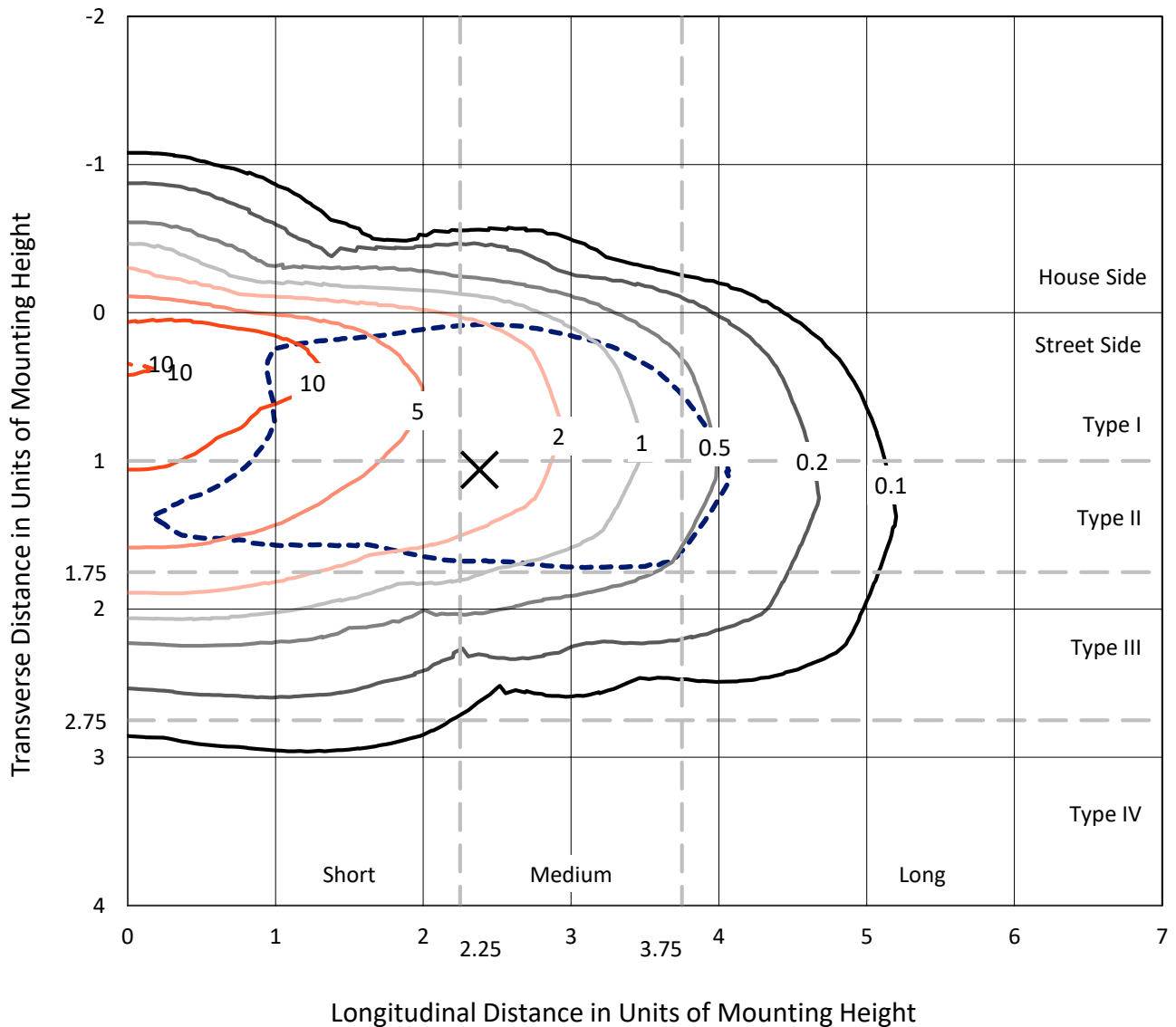
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

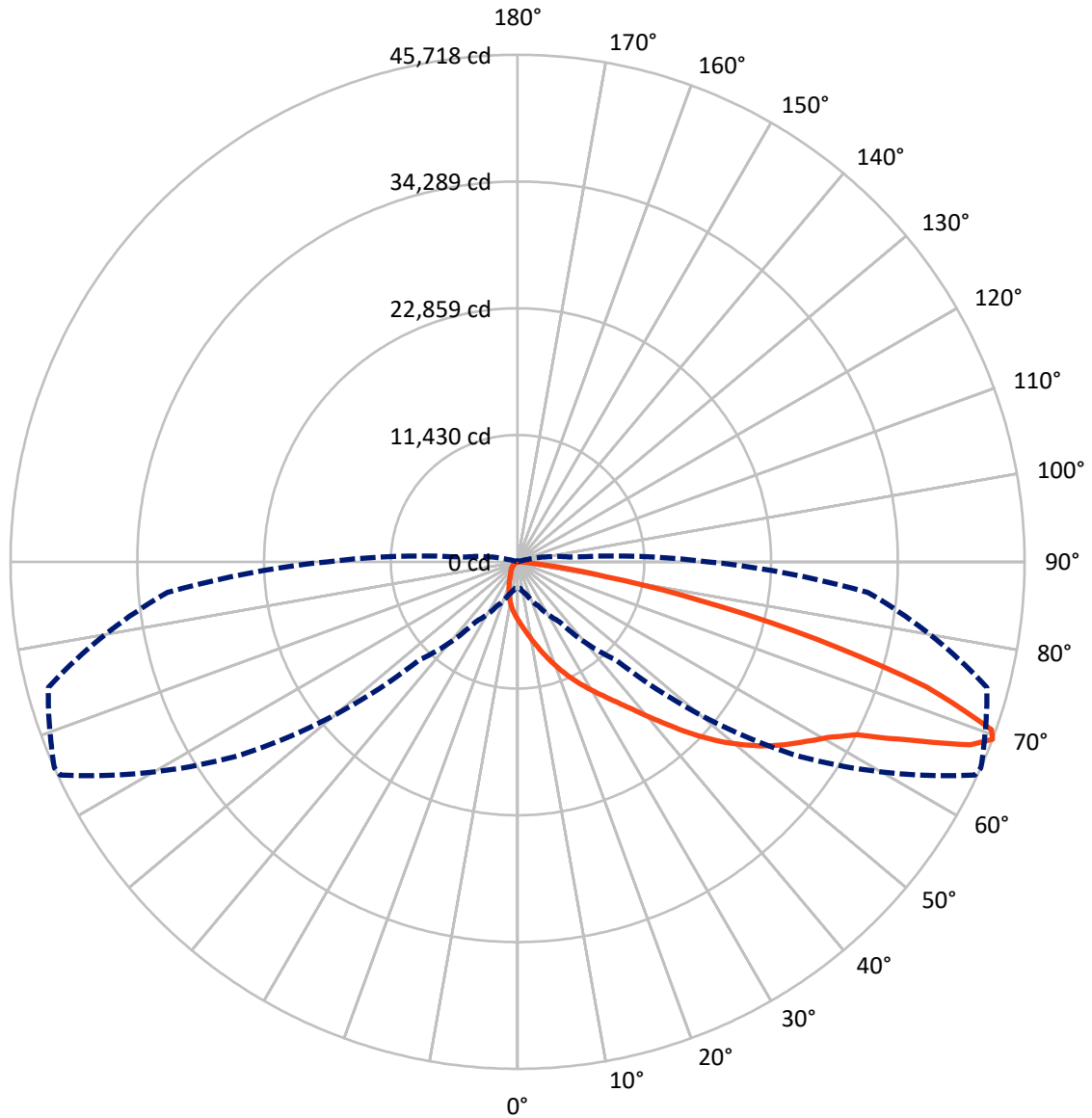
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 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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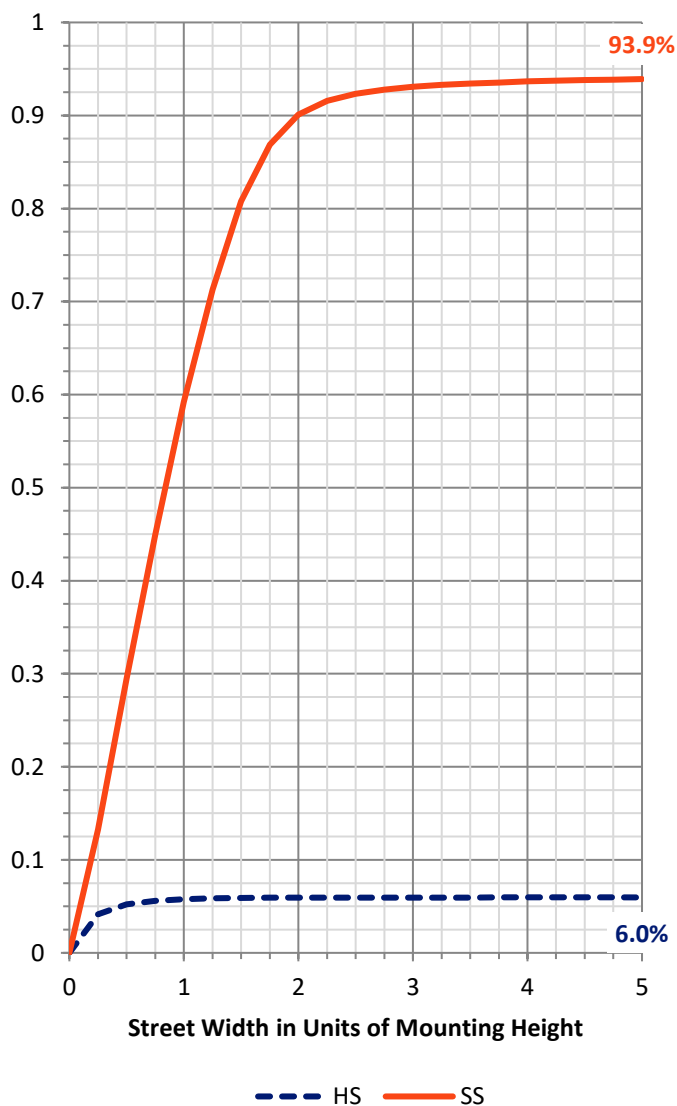
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2757.5	0.0	2757.5
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	43211.6	0.0	43211.6
	% Fixture	94.0	0.0	94.0
Total	Lumens	45969.1	0.0	45969.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	505.7	1.1
10°-20°	1505.0	3.3
20°-30°	2620.8	5.7
30°-40°	4598.2	10.0
40°-50°	7696.6	16.7
50°-60°	11313.3	24.6
60°-70°	11615.9	25.3
70°-80°	5734.5	12.5
80°-90°	379.2	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°	45969.1	100.0
0°-180°	45969.1	100.0

Coefficient of Utilization

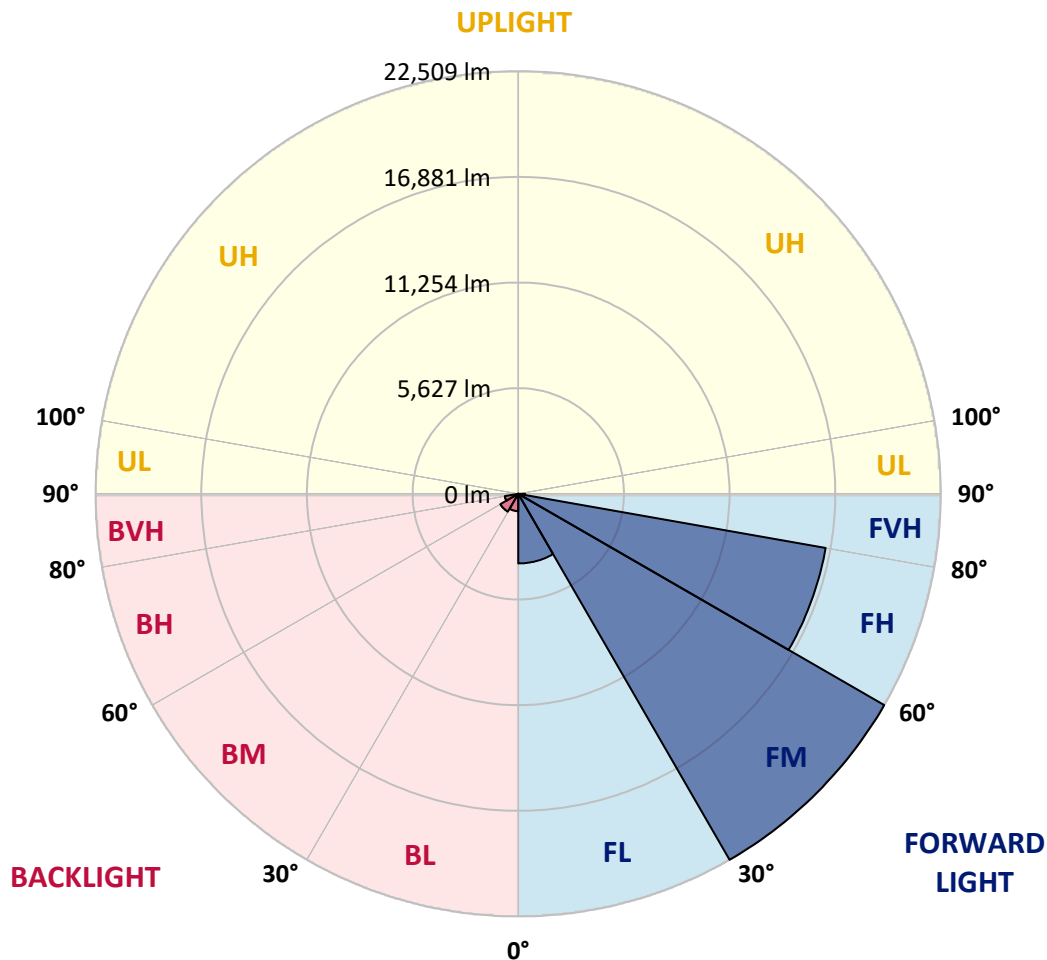


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3709.3	8.1			
FM (30°-60°)	22508.7	49.0			
FH (60°-80°)	16623.7	36.2			G5
FVH (80°-90°)	370.0	0.8			G3/500
BL (0°-30°)	922.2	2.0	B2/1000		
BM (30°-60°)	1099.4	2.4	B2/2500		
BH (60°-80°)	726.7	1.6	B2/1000		G2/1000
BVH (80°-90°)	9.2	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°	5231.4	5231.4	5231.4	5231.4	5231.4	5231.4	5231.4	5231.4	5231.4	5231.4	5231.4
2.5°	6157.2	6131.0	6120.1	6072.0	5989.1	5925.8	5803.4	5661.6	5635.4	5497.8	5329.7
5°	6956.3	6934.4	6919.2	6851.5	6766.4	6607.0	6384.3	6120.1	6069.9	5807.8	5471.6
7.5°	7513.1	7552.4	7552.4	7508.7	7401.7	7281.6	7008.7	6648.5	6585.1	6183.4	5661.6
10°	7838.4	7886.5	7923.6	7960.7	7945.4	7897.4	7639.7	7233.7	7157.2	6624.4	5882.1
12.5°	7869.0	7917.0	8021.8	8176.8	8327.5	8436.7	8275.1	7882.1	7794.7	7135.4	6144.1
15°	7698.7	7748.9	7910.4	8211.8	8576.4	8895.2	8947.6	8600.4	8510.9	7744.5	6471.6
17.5°	7401.7	7434.5	7665.9	8082.9	8655.0	9240.1	9556.7	9371.2	9288.2	8441.0	6836.3
20°	7181.2	7205.2	7408.3	7855.8	8606.9	9456.3	10133.2	10189.9	10102.6	9187.8	7231.4
22.5°	7558.9	7602.6	7609.2	7820.9	8476.0	9563.3	10639.7	10995.6	10930.1	9980.3	7620.1
25°	8591.7	8641.9	8476.0	8345.0	8587.3	9611.3	11074.2	11821.0	11768.5	10834.0	8010.9
27.5°	9956.3	10008.7	9794.8	9403.9	9170.2	9792.5	11460.6	12659.4	12657.2	11738.0	8432.3
30°	11296.9	11349.3	11131.0	10740.2	10203.1	10305.6	11794.7	13537.1	13550.2	12670.3	8879.9
32.5°	12703.0	12768.5	12543.7	12041.5	11480.3	11192.1	12264.2	14419.1	14493.4	13751.0	9384.2
35°	14301.3	14310.0	13993.4	13467.2	12820.9	12377.7	13017.4	15408.3	15585.1	15089.5	10024.0
37.5°	15868.9	15932.3	15672.4	14842.7	14248.9	13746.7	14137.5	16644.1	16895.2	16724.8	10860.3
40°	17030.6	17163.7	17126.6	16231.4	15668.1	15310.0	15528.3	18113.5	18432.3	18628.8	11914.8
42.5°	17759.8	17860.2	18030.6	17491.2	16980.3	17039.2	17170.3	19825.3	20218.3	20799.0	13126.6
45°	18596.0	18644.1	18786.0	18548.0	18203.0	18796.9	18912.7	21753.2	22165.9	23133.1	14471.6
47.5°	19617.8	19731.4	19770.7	19552.3	19395.2	20351.5	20591.7	23506.5	24085.1	25633.1	15895.2
50°	20919.2	20949.8	21017.4	20875.5	20718.3	21687.7	22098.2	25347.1	25873.3	28141.9	17299.1
52.5°	22192.1	22301.2	22537.0	22447.5	22384.3	22825.2	23441.0	27006.5	27593.8	30233.6	18700.8
55°	22558.9	22652.8	23467.2	24024.0	24539.2	24227.0	24724.9	28493.3	29128.7	32102.5	20050.2
57.5°	21093.9	21283.8	22694.3	24144.0	26281.6	26406.0	26489.0	30019.6	30589.4	33534.9	21454.1
60°	17390.8	17428.0	19742.3	22229.2	25993.3	28307.8	29065.4	31659.3	32137.5	34868.9	23135.4
62.5°	11061.1	11438.8	13978.2	17489.1	22945.3	28032.7	32181.2	34139.6	34314.3	36469.3	25545.8
65°	5268.6	5513.1	7342.7	10805.7	16620.0	24510.9	34331.8	38626.5	38705.2	39641.8	28766.3
67.5°	2917.0	3034.9	3906.1	5816.6	9716.1	17334.1	33462.8	43940.9	44015.2	42882.0	31591.7
69°	2281.6	2382.1	3067.7	4384.2	6587.3	12458.5	30281.6	45497.7	45718.2	43809.9	31692.1
70°	1936.7	2035.0	2641.9	3703.1	5297.0	9626.6	26954.1	45111.2	45344.8	43722.6	30943.1
72.5°	1185.6	1242.3	1759.8	2606.9	3550.2	4842.7	16622.3	38150.6	38545.8	40106.9	26593.8
75°	799.1	829.7	1100.4	1799.1	2539.3	2493.5	8635.4	26890.8	27746.7	31198.6	19641.9
77.5°	572.1	600.5	738.0	1163.8	1779.4	1646.3	3910.5	16711.8	16895.2	18711.7	10711.8
80°	325.3	351.6	521.9	692.1	1207.4	1098.3	1554.6	7982.5	8074.2	8024.0	3576.4
82.5°	170.3	192.2	286.0	456.4	775.1	718.3	646.3	2672.5	2685.6	2233.7	783.8
85°	32.8	39.3	141.9	312.3	399.5	312.3	264.2	626.7	639.7	565.5	194.3
87.5°	0.0	2.1	56.7	69.9	78.6	80.8	85.1	122.3	131.0	176.9	52.4
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°	5231.4	5231.4	5231.4	5231.4	5231.4	5231.4	5231.4	5231.4	5231.4	5231.4	5231.4
2.5°	5255.4	5176.9	5026.2	4851.5	4716.1	4582.9	4478.1	4369.0	4329.6	4310.0	4307.8
5°	5307.9	5141.9	4823.1	4495.6	4227.1	3973.8	3792.6	3620.1	3539.3	3502.2	3486.9
7.5°	5395.2	5128.8	4615.7	4115.7	3729.3	3412.6	3161.6	2973.8	2879.9	2840.6	2825.3
10°	5497.8	5111.3	4373.3	3714.0	3220.5	2893.0	2644.1	2458.5	2355.9	2312.2	2290.4
12.5°	5617.9	5080.8	4093.9	3307.8	2786.0	2458.5	2157.2	1927.9	1810.0	1759.8	1735.8
15°	5766.4	5050.2	3801.3	2925.7	2404.0	2004.3	1674.6	1519.6	1495.6	1486.9	1489.1
17.5°	5912.6	5002.1	3482.5	2548.1	2002.2	1565.5	1397.4	1388.7	1393.0	1393.0	1393.0
20°	6043.7	4893.0	3135.4	2224.9	1620.1	1320.9	1286.0	1270.7	1259.8	1251.1	1240.2
22.5°	6146.3	4746.7	2801.3	1903.9	1323.2	1209.6	1155.0	1107.0	1067.6	1041.5	1028.3
25°	6216.1	4552.4	2495.6	1596.0	1190.0	1100.4	1002.2	921.4	860.3	823.1	807.8
27.5°	6268.6	4342.8	2222.7	1336.2	1098.3	973.8	845.0	748.9	685.6	652.8	639.7
30°	6305.6	4104.8	1982.5	1174.7	995.6	840.6	703.0	609.1	563.3	545.9	537.1
32.5°	6340.6	3840.6	1755.4	1098.3	899.6	718.3	589.5	517.5	489.1	467.3	460.7
35°	6428.0	3596.1	1539.3	1017.4	801.3	613.5	506.6	454.1	425.7	412.7	408.3
37.5°	6635.3	3414.9	1331.8	934.5	703.0	530.6	443.2	406.2	379.9	366.8	362.5
40°	6969.4	3323.1	1157.2	845.0	607.0	467.3	401.8	366.8	338.4	318.8	314.4
42.5°	7460.7	3336.2	1034.9	755.5	530.6	417.1	362.5	320.9	290.4	272.9	268.6
45°	8056.8	3432.3	949.8	668.1	467.3	377.7	318.8	275.1	246.8	231.4	227.1
47.5°	8703.1	3587.3	879.9	589.5	417.1	340.6	275.1	229.3	205.2	192.2	189.9
50°	9384.2	3738.0	807.8	513.1	373.4	303.5	231.4	189.9	170.3	159.4	155.0
52.5°	10074.2	3912.7	742.4	443.2	336.3	259.8	192.2	155.0	139.7	131.0	126.6
55°	10816.6	4043.7	679.0	388.6	299.1	220.5	159.4	128.8	115.7	104.8	102.7
57.5°	11689.9	4246.7	613.5	336.3	255.4	183.4	131.0	102.7	91.7	80.8	78.6
60°	12869.0	4484.7	543.7	297.0	209.6	150.6	106.9	83.0	69.9	61.1	59.0
62.5°	14423.5	4748.9	456.4	259.8	170.3	122.3	85.1	65.5	50.2	39.3	39.3
65°	16395.1	5179.0	373.4	218.4	139.7	100.4	65.5	48.1	28.4	17.5	17.5
67.5°	17545.8	5253.3	301.4	179.0	113.6	85.1	54.6	32.8	8.8	2.1	0.0
69°	17176.8	4823.1	255.4	152.9	98.3	80.8	50.2	24.0	4.4	0.0	0.0
70°	16482.5	4410.5	224.9	135.4	89.5	76.4	48.1	17.5	4.4	0.0	0.0
72.5°	13620.1	3139.7	170.3	100.4	65.5	67.7	43.7	10.9	4.4	0.0	0.0
75°	9921.4	1908.3	122.3	69.9	41.5	50.2	30.6	4.4	2.1	0.0	0.0
77.5°	5519.6	899.6	76.4	39.3	26.2	30.6	15.3	0.0	0.0	0.0	0.0
80°	1792.6	244.5	34.9	21.8	15.3	17.5	6.5	0.0	0.0	0.0	0.0
82.5°	331.9	69.9	19.7	10.9	4.4	4.4	0.0	0.0	0.0	0.0	0.0
85°	72.0	28.4	10.9	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	24.0	8.8	2.1	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)