

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: P383654

Luminaire Tested: **GLEON-SA9B-735-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383654
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA9B-735-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34681.5 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

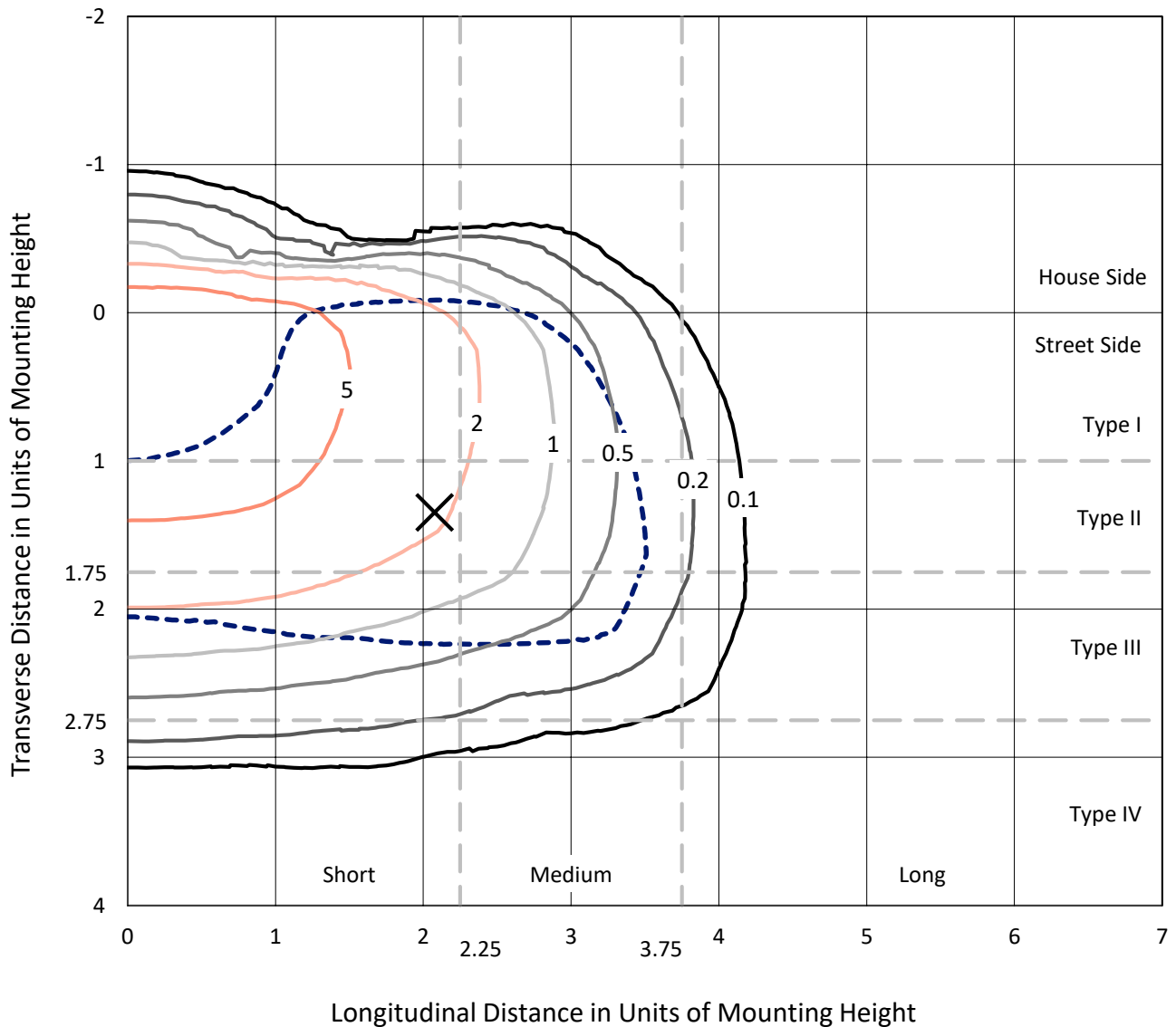
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

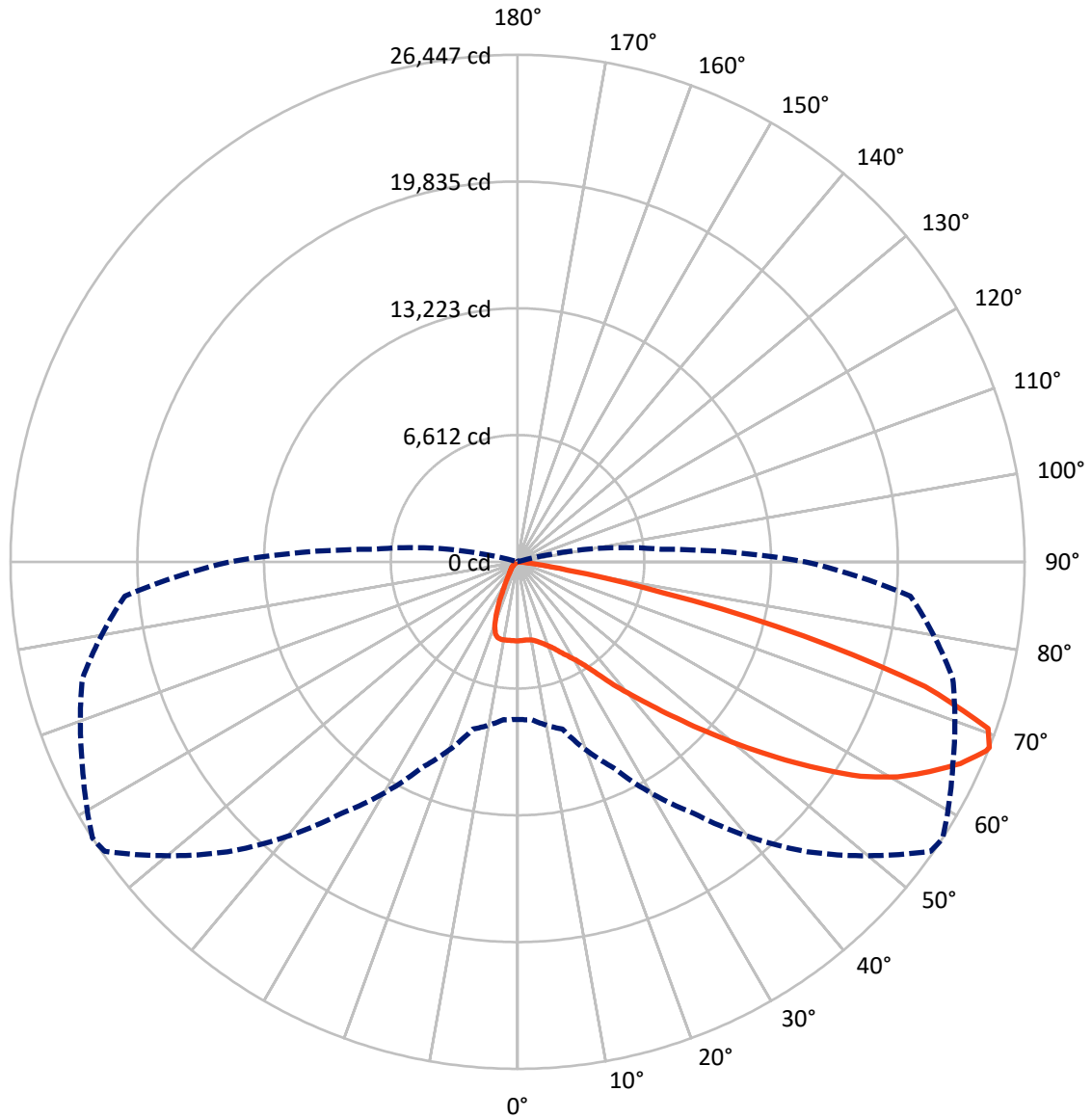
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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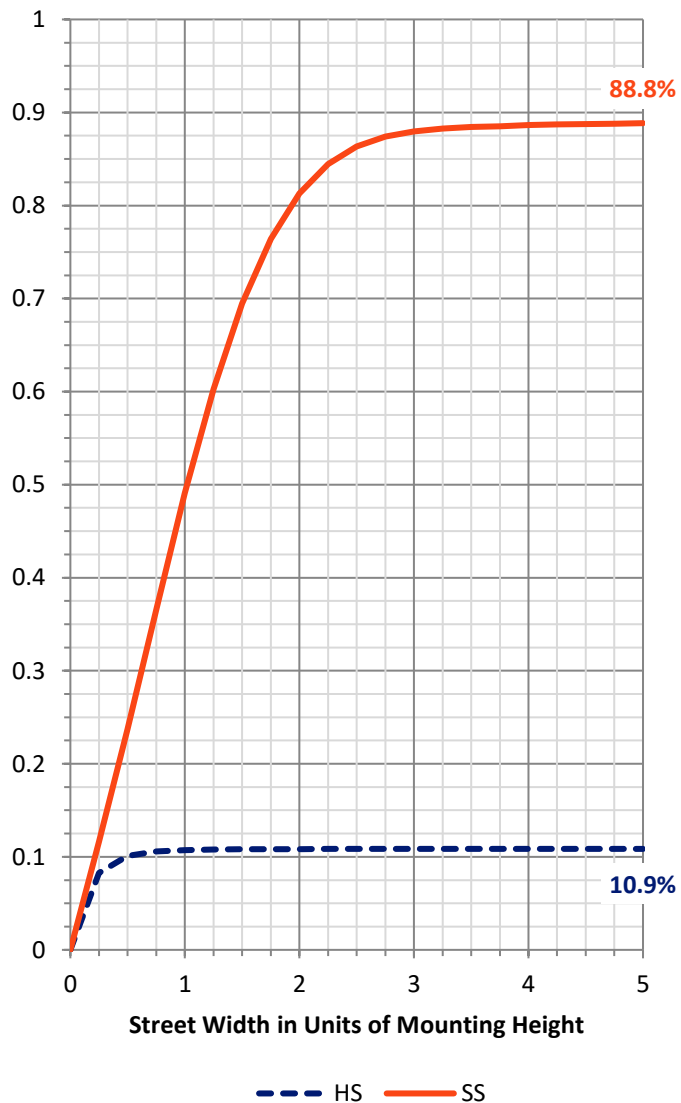
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3803.0	0.0	3803.0
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	30878.5	0.0	30878.5
	% Fixture	89.0	0.0	89.0
Total	Lumens	34681.5	0.0	34681.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	385.7	1.1
10°-20°	1068.7	3.1
20°-30°	1843.7	5.3
30°-40°	3182.1	9.2
40°-50°	5443.0	15.7
50°-60°	8708.3	25.1
60°-70°	10061.4	29.0
70°-80°	3844.6	11.1
80°-90°	144.1	0.4
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°	34681.5	100.0
0°-180°	34681.5	100.0

Coefficient of Utilization



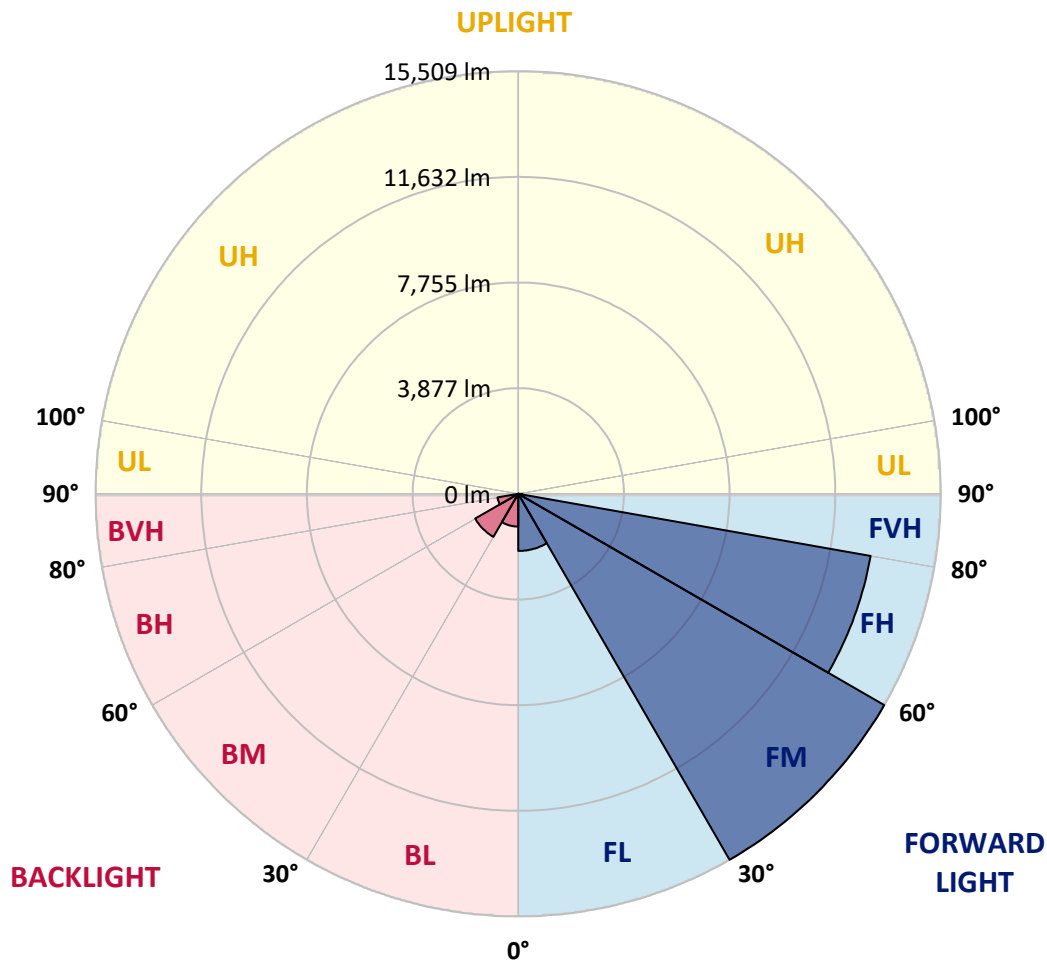
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2096.2	6.0			
FM (30°-60°)	15509.3	44.7			
FH (60°-80°)	13131.5	37.9			G5
FVH (80°-90°)	141.5	0.4			G2/225
BL (0°-30°)	1201.9	3.5	B3/2500		
BM (30°-60°)	1824.0	5.3	B2/2500		
BH (60°-80°)	774.5	2.2	B2/1000		G2/1000
BVH (80°-90°)	2.6	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	4121.1	4121.1	4121.1	4121.1	4121.1	4121.1	4121.1	4121.1	4121.1	4121.1	4121.1
2.5°	4024.3	4042.4	4055.5	4063.7	4073.6	4094.8	4101.4	4111.2	4116.1	4116.1	4127.6
5°	3865.3	3884.9	3912.8	3935.8	3981.7	4040.7	4083.3	4099.7	4129.3	4155.5	4170.3
7.5°	3717.6	3740.6	3773.4	3827.5	3906.3	4001.4	4090.0	4112.9	4170.3	4226.1	4253.9
10°	3622.5	3640.6	3683.2	3760.3	3863.6	3996.4	4121.1	4148.9	4247.4	4340.8	4393.3
12.5°	3589.7	3606.1	3650.5	3737.4	3865.3	4021.0	4193.3	4234.3	4378.6	4514.7	4588.4
15°	3637.3	3640.6	3688.2	3770.2	3896.4	4081.8	4313.0	4362.2	4544.2	4721.3	4813.1
17.5°	3821.0	3806.2	3830.8	3866.9	3966.9	4162.1	4439.2	4513.0	4755.7	4964.0	5050.9
20°	4280.2	4280.2	4224.4	4126.0	4127.6	4286.7	4609.8	4693.4	4990.2	5231.3	5310.0
22.5°	5065.7	5050.9	4939.3	4698.4	4476.9	4501.5	4818.1	4926.3	5272.3	5529.8	5556.0
25°	6010.3	5992.2	5820.0	5480.6	5096.8	4849.2	5100.1	5224.8	5608.5	5836.4	5782.3
27.5°	7010.5	6995.8	6825.3	6403.8	5857.8	5403.4	5436.3	5554.4	5951.2	6175.9	6003.7
30°	7979.7	7984.7	7815.8	7382.9	6764.6	6110.3	5862.7	5931.5	6284.1	6512.1	6266.1
32.5°	8901.4	8907.9	8762.0	8278.2	7701.0	6931.8	6453.0	6434.9	6671.1	6895.8	6613.7
35°	9723.0	9739.4	9639.4	9263.8	8652.1	7847.0	7218.8	7176.2	7220.5	7474.6	7146.7
37.5°	10515.0	10524.9	10449.4	10133.0	9621.3	8852.2	8186.4	8125.7	8030.6	8225.8	7850.2
40°	11382.6	11358.0	11271.1	10984.1	10544.6	9962.4	9226.1	9121.2	8955.5	9129.4	8775.1
42.5°	12189.4	12161.5	12176.3	11851.6	11481.0	11103.8	10438.0	10257.6	10160.9	10361.0	9909.9
45°	13198.0	13183.2	13232.4	12950.3	12650.2	12376.4	11827.0	11630.2	11587.5	11822.1	11282.5
47.5°	14193.3	14229.5	14382.0	14262.3	14140.9	13899.8	13297.9	13209.4	13235.7	13519.4	12730.5
50°	15023.2	15065.8	15484.0	15621.7	15797.2	15656.1	15052.7	14998.6	15101.9	15357.7	14288.4
52.5°	15623.4	15710.3	16230.2	16864.7	17504.3	17599.4	16997.6	16948.4	17087.8	17127.2	15492.2
55°	16039.9	16117.0	16705.7	17866.7	19168.8	19578.8	19204.9	19014.7	18988.5	18599.7	16758.2
57.5°	16113.7	16105.5	16951.7	18514.5	20474.2	21532.0	21295.8	21108.9	20571.0	19960.9	18209.5
60°	15697.1	15744.7	16727.1	18739.2	21294.2	23009.5	23027.6	22784.8	21946.8	21284.3	19616.5
62.5°	14414.8	14608.2	15600.4	18150.5	21284.3	23604.8	24296.8	24111.5	23109.6	22368.3	21043.3
65°	12335.4	12404.2	13350.5	16133.4	19846.2	23355.5	25439.8	25371.0	24157.5	23421.1	21776.3
67.5°	9008.0	8858.7	9852.5	12704.4	16802.4	21902.5	26259.8	26346.7	24965.9	23637.6	20995.7
68°	8220.8	8265.2	9039.2	11856.6	16005.5	21389.3	26313.9	26446.7	25046.2	23496.5	20569.3
70°	4900.0	4985.3	5675.7	8163.4	12176.3	18485.0	25730.1	26033.5	24567.4	22041.9	17791.3
72.5°	1251.3	1352.9	2005.6	3653.7	6954.8	13024.2	21720.5	22233.8	21330.2	17881.5	12010.6
75°	515.0	541.1	716.6	1203.7	2591.0	5867.5	14316.4	15415.1	14787.0	10705.3	5428.1
77.5°	355.9	373.9	460.8	667.5	1121.7	1989.2	7018.7	7812.5	7038.5	3653.7	1184.0
80°	255.8	270.6	329.6	444.4	644.4	710.1	2287.7	2645.1	2100.7	801.9	293.5
82.5°	152.5	164.0	246.0	316.5	391.9	339.5	569.1	646.1	608.4	398.5	131.2
85°	75.5	88.6	165.6	226.3	211.6	142.7	173.8	193.5	239.4	242.7	70.5
87.5°	4.9	9.9	96.8	136.1	59.1	32.8	50.9	62.3	85.2	119.7	29.5
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°	4121.1	4121.1	4121.1	4121.1	4121.1	4121.1	4121.1	4121.1	4121.1	4121.1	4121.1
2.5°	4132.5	4134.2	4122.8	4117.8	4121.1	4101.4	4093.2	4096.5	4096.5	4101.4	4093.2
5°	4173.5	4173.5	4153.9	4127.6	4112.9	4075.1	4050.6	4044.0	4039.1	4035.8	4029.2
7.5°	4262.1	4252.2	4217.9	4160.5	4111.2	4029.2	3966.9	3934.1	3917.7	3911.2	3906.3
10°	4404.8	4386.8	4329.4	4222.8	4109.6	3963.6	3827.5	3730.8	3650.5	3617.7	3597.9
12.5°	4596.6	4570.5	4473.7	4296.6	4098.2	3829.2	3534.0	3250.3	2986.3	2878.0	2823.9
15°	4818.1	4780.3	4627.8	4358.9	4030.9	3525.8	2884.6	2387.7	2022.0	1884.2	1825.2
17.5°	5042.7	4993.5	4762.3	4398.2	3829.2	2897.7	2023.6	1528.4	1284.0	1218.5	1195.5
20°	5269.0	5196.8	4878.7	4368.7	3373.3	2089.3	1334.9	1116.7	1046.2	1026.6	1020.0
22.5°	5483.8	5372.3	4983.7	4253.9	2671.4	1402.1	1056.1	987.3	964.2	952.8	949.5
25°	5670.8	5515.0	5075.5	3899.7	1890.9	1059.4	951.1	928.2	898.7	877.3	879.0
27.5°	5846.3	5657.7	5131.2	3315.8	1261.1	905.2	880.6	849.5	795.4	764.2	764.2
30°	6057.8	5847.9	5172.2	2551.7	928.2	800.3	780.6	733.0	659.3	618.3	618.3
32.5°	6376.0	6136.5	5146.1	1790.8	769.1	703.5	657.6	592.0	511.6	472.3	470.6
35°	6863.0	6582.6	4959.1	1174.2	678.9	611.7	537.9	457.6	387.1	354.2	352.6
37.5°	7519.0	7179.5	4539.2	839.6	608.4	526.4	437.8	349.3	296.8	275.5	273.9
40°	8370.0	7873.2	3939.0	680.6	542.8	444.4	337.8	270.6	234.5	218.1	219.8
42.5°	9391.8	8616.1	3219.1	587.1	478.8	365.7	264.0	213.2	190.2	178.8	175.5
45°	10526.6	9349.1	2464.8	523.2	414.9	295.2	206.6	168.9	150.9	144.3	144.3
47.5°	11774.5	10062.5	1803.8	467.4	346.0	227.9	165.6	137.8	123.0	118.0	116.4
50°	12907.7	10557.7	1300.4	408.3	283.7	180.3	134.5	114.8	105.0	98.4	98.4
52.5°	13852.3	10713.4	957.7	344.4	229.6	144.3	111.5	98.4	88.6	83.7	83.7
55°	14683.7	10649.5	711.7	283.7	185.3	118.0	95.1	83.7	75.5	70.5	70.5
57.5°	15480.7	10442.9	531.4	231.2	149.2	95.1	80.4	70.5	62.3	59.1	59.1
60°	16131.7	10098.5	395.3	187.0	119.7	77.0	67.3	57.4	50.9	45.9	45.9
62.5°	16659.8	9718.1	290.3	154.2	95.1	60.6	52.4	47.6	37.7	32.8	32.8
65°	16663.1	9086.7	218.1	127.9	73.8	47.6	39.3	37.7	24.6	19.7	18.1
67.5°	15457.7	7833.8	167.3	109.8	57.4	36.1	29.5	31.1	13.1	8.2	6.5
68°	15019.9	7515.7	157.4	108.2	54.1	34.5	27.9	31.1	11.5	6.5	4.9
70°	12663.4	5979.0	126.3	105.0	47.6	26.3	22.9	31.1	9.9	4.9	3.3
72.5°	8099.5	3470.0	93.4	83.7	36.1	19.7	14.7	27.9	9.9	3.3	1.7
75°	3447.1	1075.8	64.0	59.1	21.3	14.7	9.9	18.1	6.5	1.7	0.0
77.5°	726.5	242.7	37.7	36.1	14.7	9.9	6.5	4.9	1.7	0.0	0.0
80°	187.0	70.5	19.7	18.1	8.2	4.9	3.3	0.0	0.0	0.0	0.0
82.5°	59.1	27.9	11.5	8.2	3.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	29.5	16.4	6.5	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.4	4.9	1.7	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)