

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: P191122

Luminaire Tested: **GLEON-AF-04-LED-E1-SL3-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191122
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-04-LED-E1-SL3-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16954.4 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B1 - U0 - G3

Input Watts (W): 171
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

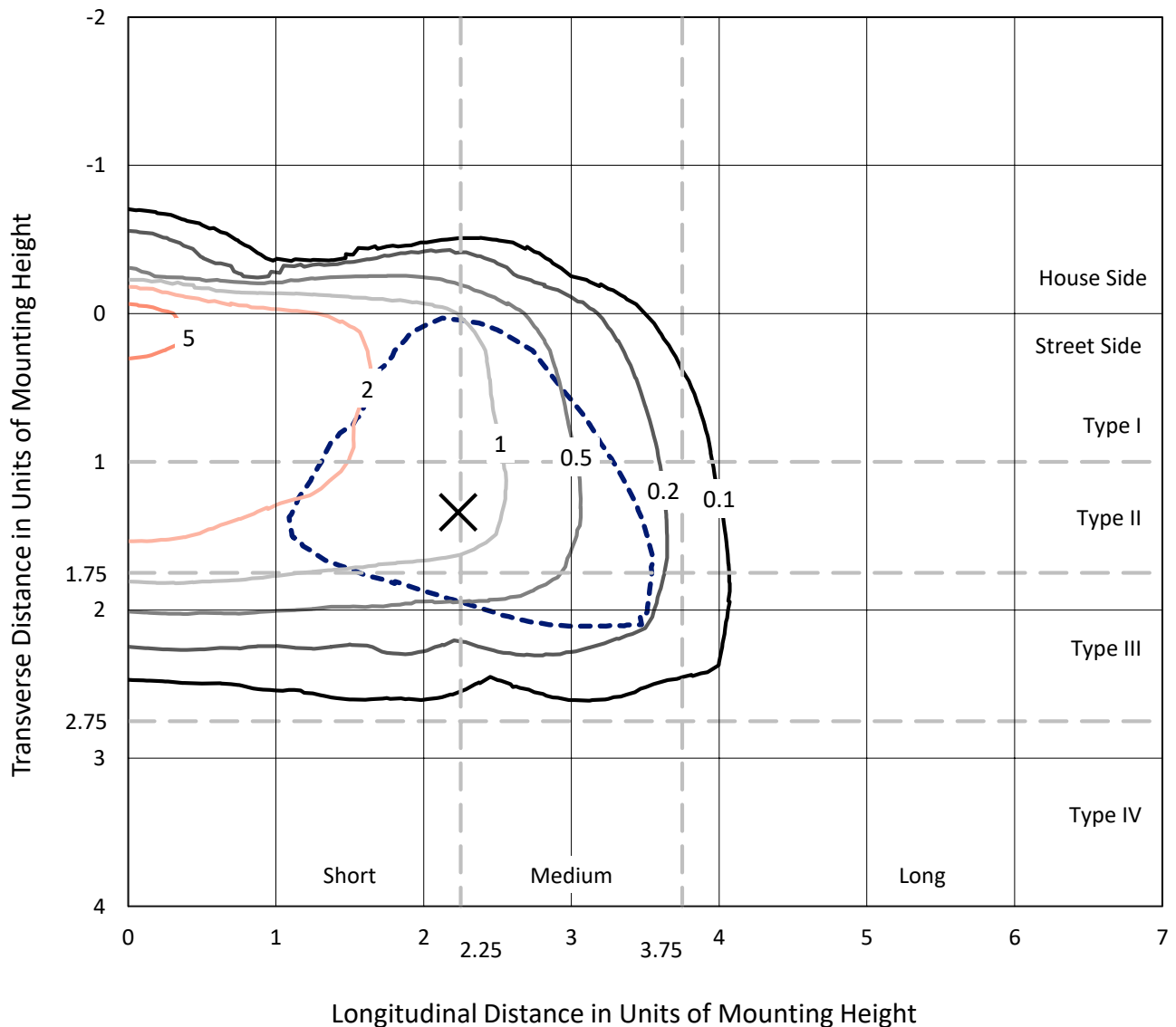


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Iso-Footcandle Lines of Horizontal Illumination

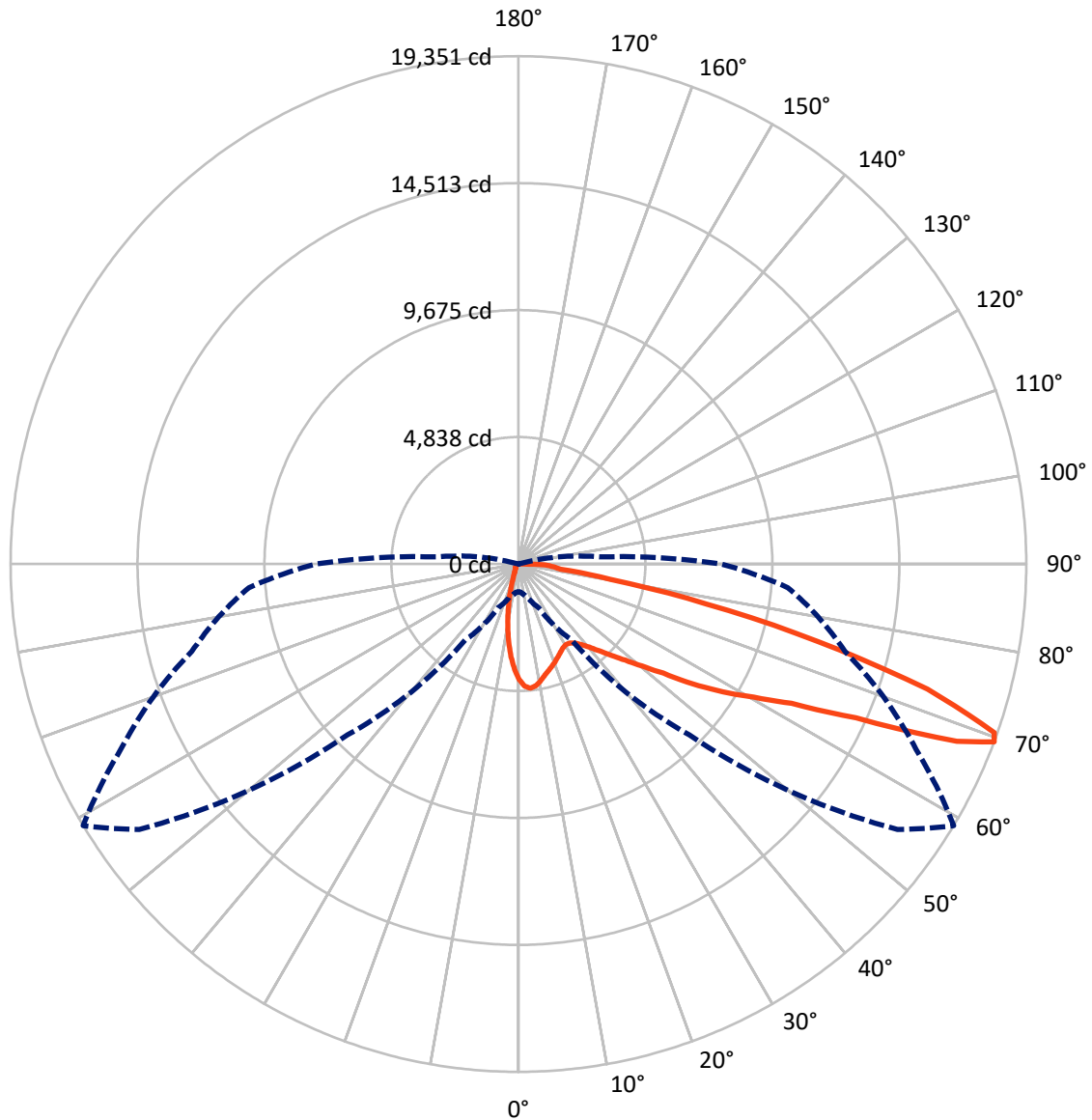
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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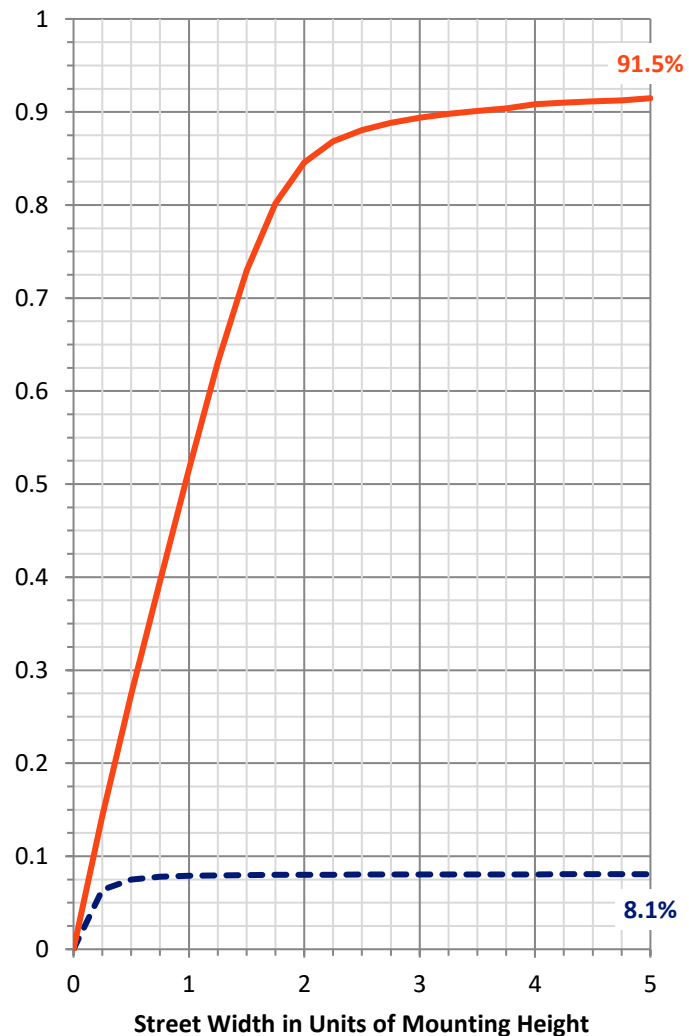
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1380.7	0.0	1380.7
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	15573.7	0.0	15573.7
	% Fixture	91.9	0.0	91.9
Total	Lumens	16954.4	0.0	16954.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	358.2	2.1
10°-20°	740.1	4.4
20°-30°	996.0	5.9
30°-40°	1446.1	8.5
40°-50°	2407.8	14.2
50°-60°	3756.2	22.2
60°-70°	4648.0	27.4
70°-80°	2355.5	13.9
80°-90°	246.5	1.5
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°	16954.4	100.0
0°-180°	16954.4	100.0



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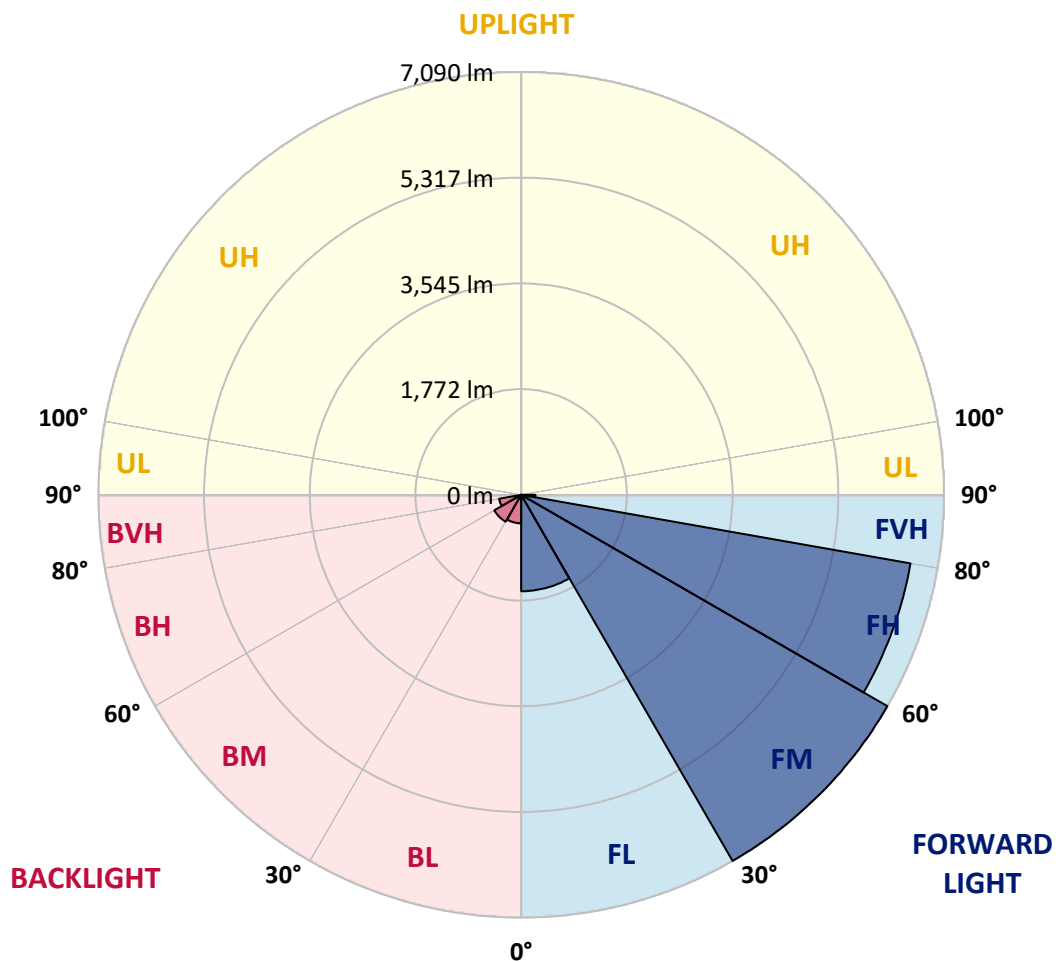
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1616.4	9.5			
FM	(30°-60°)	7089.8	41.8			
FH	(60°-80°)	6628.6	39.1			G3/7500
FVH	(80°-90°)	238.9	1.4			G3/500
BL	(0°-30°)	477.9	2.8	B1/500		
BM	(30°-60°)	520.3	3.1	B1/1000		
BH	(60°-80°)	375.0	2.2	B1/500		G1/500
BVH	(80°-90°)	7.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	4413.0	4413.0	4413.0	4413.0	4413.0	4413.0	4413.0	4413.0	4413.0	4413.0	4413.0
2.5°	4836.7	4834.9	4813.7	4804.2	4786.9	4750.5	4693.9	4664.1	4616.3	4532.8	4420.7
5°	4792.6	4815.6	4828.1	4829.0	4841.5	4828.1	4777.3	4752.4	4686.2	4552.0	4350.7
7.5°	4493.5	4502.1	4537.6	4568.3	4627.7	4684.3	4702.5	4692.0	4652.7	4508.9	4241.4
10°	4173.3	4181.9	4224.2	4264.4	4344.9	4432.1	4524.2	4543.3	4559.7	4447.5	4135.9
12.5°	3897.2	3905.8	3949.0	4001.7	4095.7	4203.0	4345.9	4377.5	4449.4	4389.1	4051.6
15°	3659.4	3663.3	3705.4	3770.7	3882.8	4020.9	4182.9	4233.7	4344.0	4347.8	3977.7
17.5°	3457.2	3466.8	3492.7	3555.0	3677.6	3848.3	4037.2	4110.0	4239.4	4313.3	3905.8
20°	3333.5	3343.1	3342.1	3376.7	3486.8	3669.0	3891.4	3978.7	4135.9	4277.8	3841.6
22.5°	3309.6	3309.6	3284.6	3279.8	3344.9	3497.4	3740.0	3846.4	4042.9	4262.4	3796.6
25°	3394.9	3391.0	3328.7	3277.8	3280.7	3371.9	3593.3	3719.9	3964.3	4273.1	3772.5
27.5°	3575.1	3570.3	3491.6	3394.9	3317.2	3316.2	3482.1	3618.2	3901.9	4322.9	3782.2
30°	3824.3	3822.5	3737.0	3615.3	3474.5	3344.9	3443.8	3567.4	3861.7	4413.0	3804.3
32.5°	4096.6	4093.7	4029.5	3901.0	3722.7	3474.5	3484.0	3587.5	3873.2	4532.8	3857.9
35°	4385.2	4380.4	4352.6	4240.4	4043.9	3713.1	3616.3	3696.8	3946.1	4712.1	3963.3
37.5°	4697.7	4702.5	4722.7	4615.2	4409.1	4047.7	3837.8	3892.4	4092.8	4955.6	4135.0
40°	5158.8	5157.9	5164.7	5023.7	4825.3	4457.1	4147.5	4164.6	4338.2	5278.7	4395.7
42.5°	5995.8	5937.3	5760.0	5472.4	5273.0	4925.0	4537.6	4519.4	4638.3	5678.5	4761.0
45°	7120.5	6995.8	6535.6	5984.4	5729.3	5452.2	5018.0	4959.5	5035.2	6158.8	5211.6
47.5°	8087.8	7958.4	7307.3	6517.4	6213.5	5952.7	5580.7	5475.2	5500.2	6696.6	5783.0
50°	8416.6	8353.3	7784.9	6981.4	6682.3	6582.6	6233.6	6105.2	6069.7	7318.9	6445.5
52.5°	8302.5	8297.8	7919.1	7282.5	7111.8	7234.5	7055.2	6906.7	6776.2	7974.6	7119.4
55°	8119.4	8143.4	7973.7	7546.1	7540.4	7829.9	8178.8	8055.1	7677.5	8687.0	7700.5
57.5°	7614.1	7716.7	7943.0	8044.6	8280.5	8576.7	9114.6	9187.4	8740.7	9232.4	8182.7
60°	6178.0	6403.3	7143.5	8116.5	9234.4	9972.6	10243.9	10306.2	9613.1	9685.9	8833.7
62.5°	4385.2	4615.2	5553.9	7200.0	9248.8	11806.7	11926.5	11682.0	10573.7	10358.0	9956.3
65°	2327.7	2505.1	3272.1	5197.2	8018.7	12232.3	14868.8	14140.1	12268.8	11680.1	11406.8
67.5°	1190.7	1244.4	1549.3	2543.5	5512.7	10865.2	17506.3	18019.2	15190.0	12991.6	11336.9
69°	1053.6	1085.2	1287.6	1838.9	3530.0	9202.8	17634.8	19350.9	16719.1	12882.3	10302.4
70°	1020.1	1047.9	1231.9	1664.3	2759.2	7717.7	17142.9	19233.8	17110.3	12466.3	9529.7
72.5°	865.7	889.7	1096.8	1470.7	2242.4	3831.1	13925.4	16298.3	15353.9	10384.9	6898.0
75°	579.1	657.7	1052.7	1378.6	2086.2	2176.3	9180.7	11777.8	10941.0	7004.5	3593.3
77.5°	139.0	149.6	297.2	1096.8	1907.9	1915.5	4721.7	7321.8	5971.9	2496.5	849.5
80°	74.8	71.9	83.4	217.6	1776.6	1797.6	2125.5	3553.9	2132.2	414.2	280.0
82.5°	52.7	49.8	53.7	91.0	558.9	1637.5	1537.8	1608.7	883.9	159.2	125.6
85°	19.1	18.2	29.8	82.4	175.4	941.4	1579.9	1326.9	716.2	72.8	92.1
87.5°	6.8	5.7	11.5	45.0	53.7	400.8	975.0	1002.8	281.8	44.1	43.2
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°	4413.0	4413.0	4413.0	4413.0	4413.0	4413.0	4413.0	4413.0	4413.0	4413.0	4413.0
2.5°	4373.7	4314.3	4204.9	4092.8	3989.2	3864.6	3802.3	3740.9	3715.1	3705.4	3660.4
5°	4247.1	4146.4	3914.4	3681.5	3466.8	3238.6	3088.1	2967.3	2896.3	2861.8	2807.2
7.5°	4085.2	3920.3	3568.4	3208.8	2874.3	2544.5	2300.0	2112.1	1982.7	1920.3	1863.7
10°	3927.9	3708.3	3207.9	2718.0	2263.6	1826.4	1488.9	1244.4	1088.1	1016.2	970.3
12.5°	3787.0	3502.2	2859.9	2239.5	1669.1	1157.2	814.0	619.3	522.5	489.0	472.6
15°	3661.3	3312.4	2531.0	1785.2	1130.4	661.5	444.9	378.7	363.4	363.4	361.4
17.5°	3542.5	3126.3	2213.7	1358.5	709.4	404.6	338.4	329.8	329.8	333.6	333.6
20°	3428.4	2949.1	1906.9	975.0	446.7	321.2	305.9	303.9	305.9	310.7	310.7
22.5°	3330.6	2788.0	1620.3	669.2	331.7	289.5	281.8	279.0	280.0	282.8	284.8
25°	3257.7	2651.8	1349.9	453.5	285.7	263.6	255.0	250.2	246.4	246.4	248.3
27.5°	3211.8	2536.8	1088.1	329.8	257.0	239.7	226.3	218.6	209.9	205.2	207.0
30°	3178.2	2427.5	842.7	269.4	230.1	212.9	195.6	183.1	170.6	164.9	166.8
32.5°	3165.7	2339.3	629.8	237.7	206.1	187.0	165.8	149.6	136.2	131.3	132.3
35°	3199.3	2269.3	461.1	214.7	187.0	163.0	139.0	120.8	110.3	107.4	108.3
37.5°	3287.5	2231.9	345.1	195.6	169.7	142.8	116.0	98.7	92.1	92.1	93.0
40°	3454.3	2231.0	277.1	182.2	154.4	123.7	95.9	83.4	79.6	81.5	82.4
42.5°	3697.8	2281.8	241.6	169.7	141.0	105.5	79.6	71.0	70.0	71.9	72.8
45°	4030.4	2374.8	222.4	159.2	126.5	88.2	67.1	61.4	61.4	64.2	65.2
47.5°	4438.0	2510.9	206.1	148.6	112.2	73.9	57.5	53.7	54.6	57.5	58.5
50°	4928.8	2682.5	189.9	137.1	101.6	61.4	49.8	47.0	48.0	51.8	52.7
52.5°	5487.7	2913.6	176.4	126.5	88.2	50.8	42.1	40.3	42.1	46.0	47.0
55°	5967.1	3120.6	160.1	117.9	71.0	42.1	34.5	34.5	36.4	41.2	42.1
57.5°	6428.2	3337.3	145.8	101.6	55.6	33.6	28.7	29.8	32.6	37.4	38.4
60°	7105.1	3704.5	128.5	85.3	42.1	26.8	23.9	25.0	28.7	33.6	34.5
62.5°	8254.6	4263.5	111.2	71.0	32.6	21.1	19.1	21.1	25.9	31.6	32.6
65°	9292.0	4490.7	91.0	59.4	25.0	16.3	16.3	19.1	25.0	30.7	31.6
67.5°	8713.8	3780.2	71.0	47.0	19.1	12.5	13.4	18.2	23.9	30.7	31.6
69°	7706.2	3090.9	60.4	37.4	16.3	11.5	12.5	18.2	23.9	29.8	30.7
70°	6921.0	2609.6	53.7	31.6	14.4	11.5	12.5	17.3	23.9	29.8	30.7
72.5°	4635.4	1409.3	43.2	23.0	13.4	10.5	10.5	17.3	23.0	28.7	29.8
75°	1992.2	389.2	34.5	16.3	11.5	9.6	9.6	16.3	22.1	27.8	29.8
77.5°	364.3	98.7	27.8	14.4	11.5	9.6	8.6	15.3	21.1	26.8	27.8
80°	144.7	48.9	22.1	12.5	10.5	8.6	7.7	14.4	20.2	25.9	26.8
82.5°	87.3	27.8	18.2	11.5	10.5	7.7	6.8	12.5	19.1	25.0	25.9
85°	71.0	19.1	14.4	11.5	9.6	7.7	5.7	11.5	17.3	23.9	25.0
87.5°	34.5	13.4	13.4	10.5	9.6	7.7	5.7	10.5	16.3	23.0	23.9
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)