

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: P322383

Luminaire Tested: **GLEON-SA9D-827-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322383
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-SA9D-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1200mA 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: 37160 lumens
Efficiency: N/A
Efficacy: 64.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

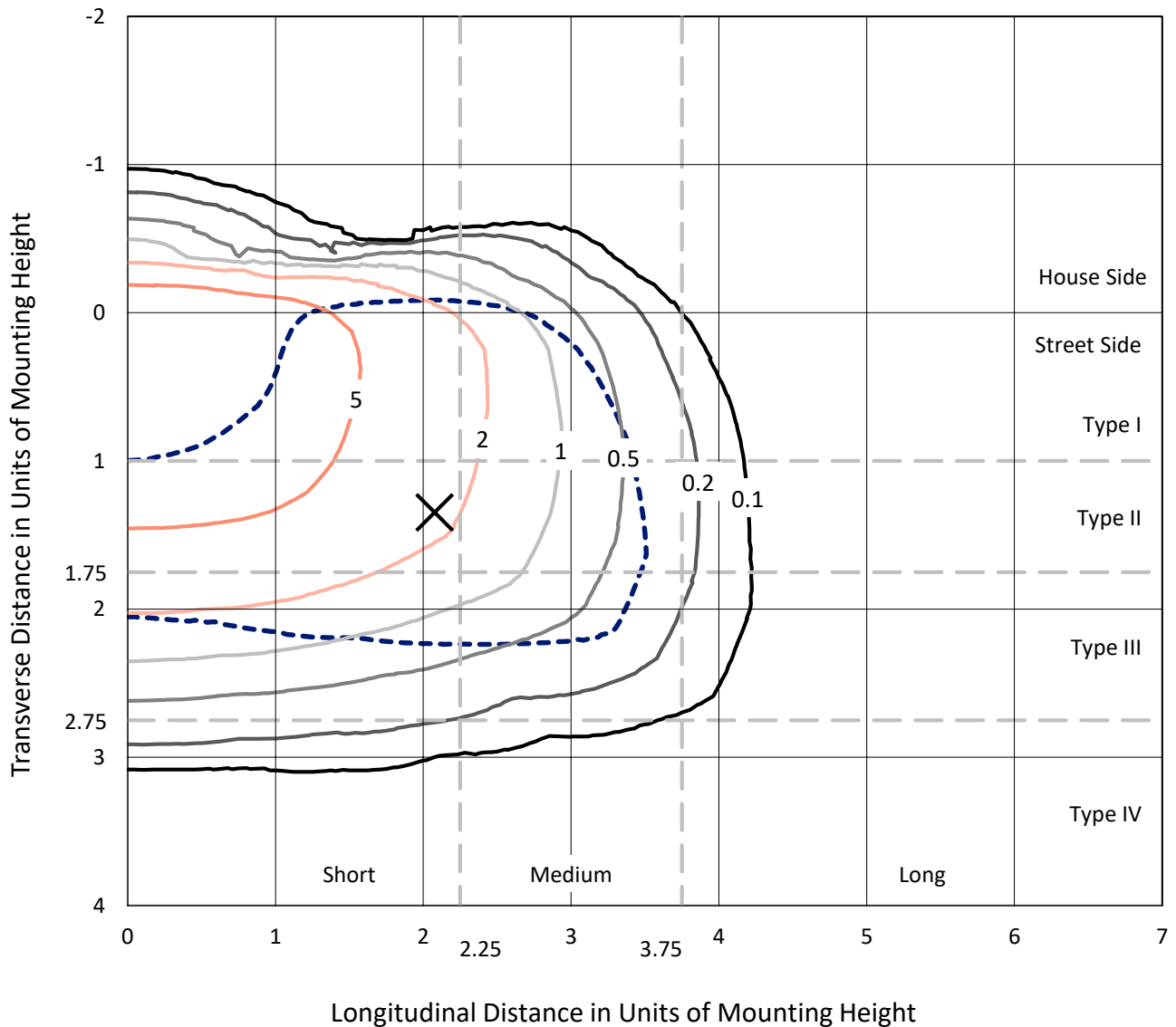
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P322383
 CATALOG NUMBER: GLEON-SA9D-827-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

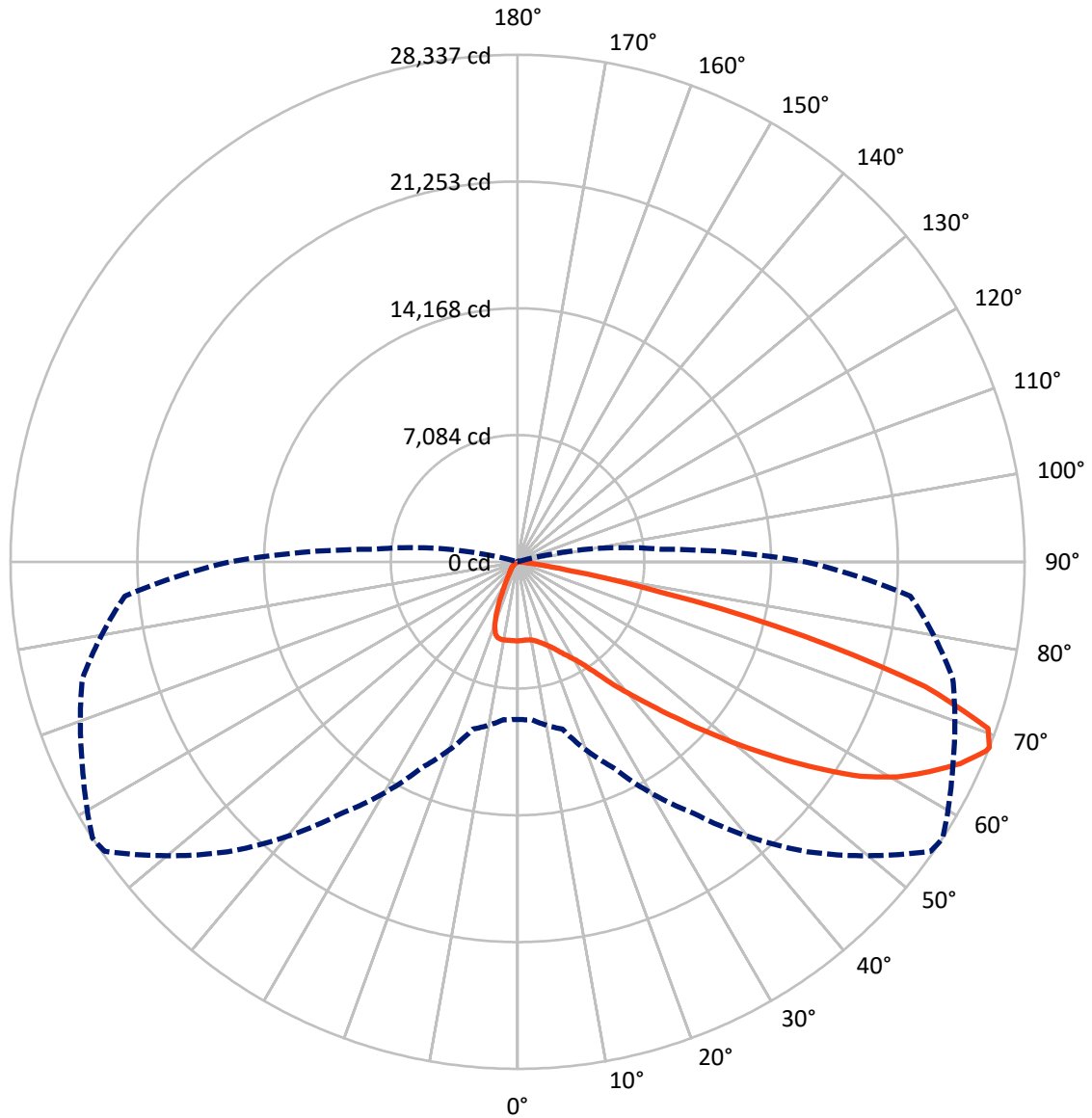
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type III - Short - N/A

REPORT NUMBER: P322383
CATALOG NUMBER: GLEON-SA9D-827-U-T3-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P322383
 CATALOG NUMBER: GLEON-SA9D-827-U-T3-HSS

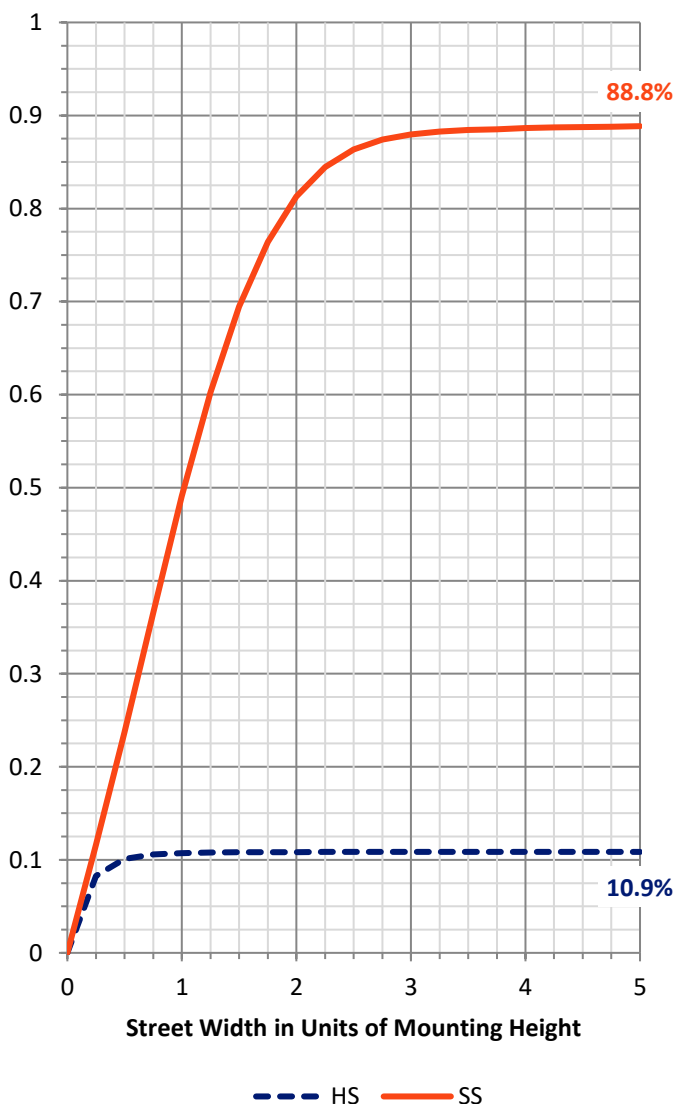
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4074.8	0.0	4074.8
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	33085.2	0.0	33085.2
	% Fixture	89.0	0.0	89.0
Total	Lumens	37160.0	0.0	37160.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	413.2	1.1
10°-20°	1145.1	3.1
20°-30°	1975.4	5.3
30°-40°	3409.5	9.2
40°-50°	5832.0	15.7
50°-60°	9330.6	25.1
60°-70°	10780.5	29.0
70°-80°	4119.4	11.1
80°-90°	154.4	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°	37160.0	100.0
0°-180°	37160.0	100.0

Coefficient of Utilization



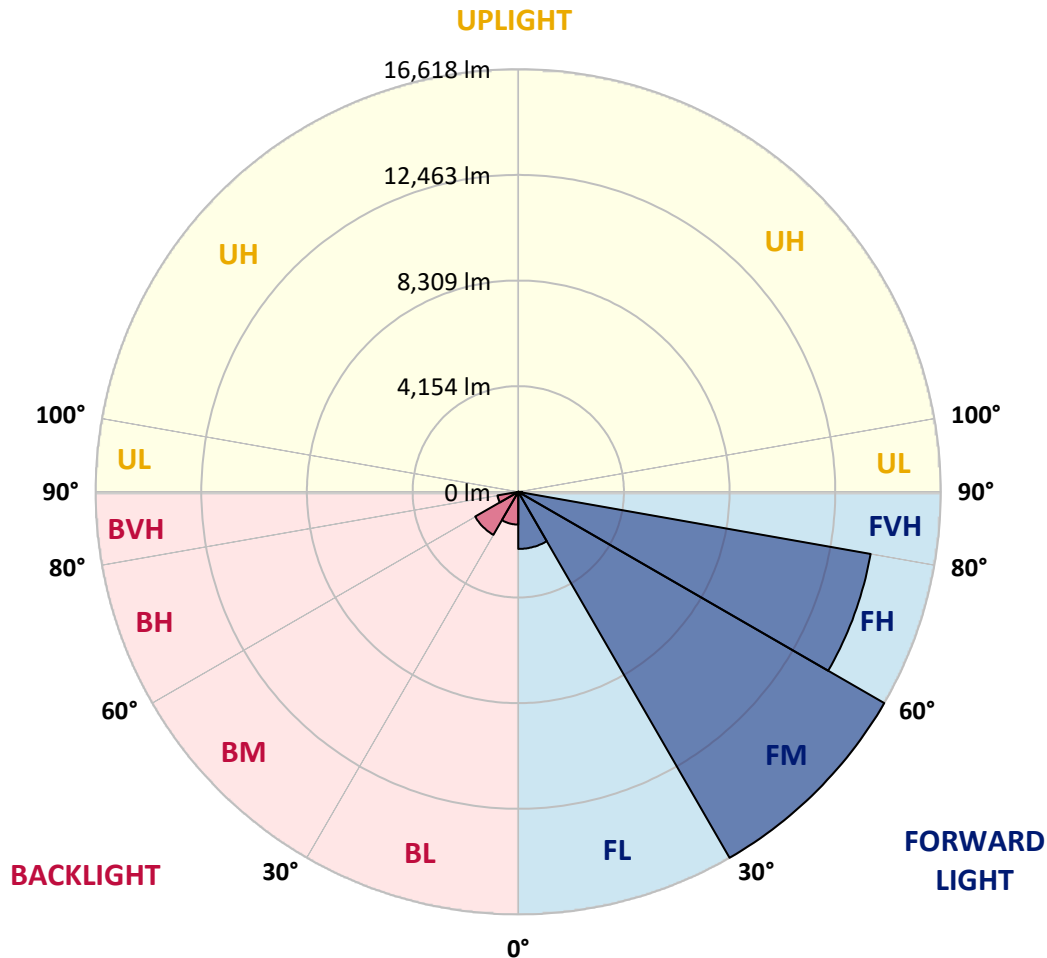
REPORT NUMBER: P322383
 CATALOG NUMBER: GLEON-SA9D-827-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2246.0	6.0			
FM (30°-60°)	16617.6	44.7			
FH (60°-80°)	14070.0	37.9			G5
FVH (80°-90°)	151.6	0.4			G2/225
BL (0°-30°)	1287.8	3.5	B3/2500		
BM (30°-60°)	1954.4	5.3	B2/2500		
BH (60°-80°)	829.9	2.2	B2/1000		G2/1000
BVH (80°-90°)	2.8	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





REPORT NUMBER: P322383

CATALOG NUMBER: GLEON-SA9D-827-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	4415.6	4415.6	4415.6	4415.6	4415.6	4415.6	4415.6	4415.6	4415.6	4415.6	4415.6
2.5°	4311.9	4331.2	4345.3	4354.1	4364.6	4387.5	4394.5	4405.0	4410.3	4410.3	4422.6
5°	4141.5	4162.6	4192.4	4217.0	4266.2	4329.5	4375.2	4392.7	4424.4	4452.5	4468.3
7.5°	3983.3	4007.9	4043.1	4101.1	4185.4	4287.3	4382.2	4406.8	4468.3	4528.0	4557.9
10°	3881.4	3900.8	3946.4	4029.0	4139.7	4282.0	4415.6	4445.5	4550.9	4651.0	4707.3
12.5°	3846.3	3863.9	3911.3	4004.4	4141.5	4308.4	4492.9	4536.8	4691.5	4837.3	4916.4
15°	3897.2	3900.8	3951.7	4039.6	4174.9	4373.4	4621.2	4673.9	4868.9	5058.7	5157.1
17.5°	4094.0	4078.2	4104.6	4143.2	4250.4	4459.5	4756.5	4835.5	5095.6	5318.7	5411.9
20°	4586.0	4586.0	4526.3	4420.9	4422.6	4593.1	4939.2	5028.8	5346.8	5605.1	5689.5
22.5°	5427.7	5411.9	5292.4	5034.1	4796.9	4823.2	5162.4	5278.3	5649.1	5924.9	5953.0
25°	6439.8	6420.4	6235.9	5872.2	5461.1	5195.7	5464.6	5598.1	6009.3	6253.5	6195.5
27.5°	7511.6	7495.8	7313.0	6861.5	6276.4	5789.6	5824.8	5951.3	6376.5	6617.2	6432.7
30°	8550.0	8555.3	8374.3	7910.5	7248.0	6546.9	6281.6	6355.4	6733.2	6977.4	6713.9
32.5°	9537.5	9544.6	9388.2	8869.8	8251.3	7427.3	6914.2	6894.9	7147.9	7388.6	7086.4
35°	10417.8	10435.4	10328.2	9925.8	9270.4	8407.7	7734.7	7689.1	7736.5	8008.9	7657.4
37.5°	11266.5	11277.1	11196.2	10857.1	10308.9	9484.8	8771.4	8706.4	8604.5	8813.6	8411.2
40°	12196.0	12169.7	12076.5	11769.0	11298.1	10674.4	9885.4	9773.0	9595.5	9781.8	9402.2
42.5°	13060.5	13030.6	13046.5	12698.5	12301.4	11897.3	11183.9	10990.6	10887.0	11101.3	10618.1
45°	14141.1	14125.3	14178.0	13875.8	13554.3	13260.8	12672.2	12461.3	12415.7	12666.9	12088.8
47.5°	15207.7	15246.3	15409.8	15281.5	15151.5	14893.2	14248.3	14153.4	14181.5	14485.5	13640.4
50°	16096.8	16142.5	16590.5	16738.1	16926.1	16775.0	16128.4	16070.4	16181.1	16455.2	15309.6
52.5°	16739.9	16833.0	17390.0	18070.0	18755.3	18857.2	18212.3	18159.6	18309.0	18351.1	16599.3
55°	17186.2	17268.8	17899.6	19143.6	20538.7	20978.0	20577.4	20373.6	20345.4	19929.0	17955.8
57.5°	17265.2	17256.5	18163.1	19837.6	21937.4	23070.7	22817.7	22617.4	22041.0	21387.4	19510.8
60°	16818.9	16869.9	17922.4	20078.4	22815.9	24653.8	24673.2	24413.1	23515.2	22805.4	21018.4
62.5°	15444.9	15652.2	16715.3	19447.6	22805.4	25291.7	26033.2	25834.6	24761.0	23966.8	22547.1
65°	13216.9	13290.7	14304.5	17286.3	21264.4	25024.6	27257.9	27184.1	25883.8	25094.9	23332.5
67.5°	9651.7	9491.8	10556.6	13612.2	18003.2	23467.8	28136.4	28229.5	26750.1	25326.8	22496.1
68°	8808.3	8855.8	9685.1	12703.8	17149.3	22917.8	28194.4	28336.7	26836.2	25175.7	22039.3
70°	5250.2	5341.6	6081.3	8746.8	13046.5	19806.0	27568.9	27893.9	26323.1	23617.2	19062.8
72.5°	1340.7	1449.6	2148.9	3914.8	7451.9	13954.9	23272.8	23822.7	22854.6	19159.4	12869.0
75°	551.7	579.8	767.9	1289.7	2776.2	6286.9	15339.5	16516.7	15843.8	11470.3	5816.0
77.5°	381.3	400.6	493.7	715.1	1201.9	2131.4	7520.4	8370.8	7541.5	3914.8	1268.6
80°	274.1	289.9	353.2	476.2	690.5	760.8	2451.2	2834.2	2250.8	859.2	314.5
82.5°	163.4	175.7	263.6	339.1	419.9	363.7	609.7	692.3	651.9	427.0	140.6
85°	80.8	94.9	177.5	242.5	226.7	152.9	186.3	207.3	256.5	260.1	75.6
87.5°	5.3	10.5	103.7	145.8	63.3	35.1	54.5	66.8	91.4	128.3	31.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P322383

CATALOG NUMBER: GLEON-SA9D-827-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4415.6	4415.6	4415.6	4415.6	4415.6	4415.6	4415.6	4415.6	4415.6	4415.6	4415.6
2.5°	4427.9	4429.6	4417.3	4412.1	4415.6	4394.5	4385.7	4389.2	4389.2	4394.5	4385.7
5°	4471.8	4471.8	4450.7	4422.6	4406.8	4366.4	4340.0	4333.0	4327.7	4324.2	4317.2
7.5°	4566.7	4556.2	4519.3	4457.8	4405.0	4317.2	4250.4	4215.3	4197.7	4190.7	4185.4
10°	4719.6	4700.2	4638.7	4524.5	4403.3	4246.9	4101.1	3997.4	3911.3	3876.2	3855.1
12.5°	4925.1	4897.0	4793.4	4603.6	4391.0	4102.8	3786.5	3482.6	3199.7	3083.7	3025.7
15°	5162.4	5121.9	4958.5	4670.4	4318.9	3777.8	3090.7	2558.3	2166.5	2018.9	1955.7
17.5°	5403.1	5350.4	5102.6	4712.5	4102.8	3104.8	2168.3	1637.6	1375.8	1305.5	1280.9
20°	5645.6	5568.2	5227.4	4680.9	3614.4	2238.5	1430.3	1196.6	1121.0	1099.9	1092.9
22.5°	5875.7	5756.3	5339.8	4557.9	2862.3	1502.3	1131.6	1057.8	1033.2	1020.9	1017.4
25°	6076.0	5909.1	5438.2	4178.4	2025.9	1135.1	1019.1	994.5	962.9	940.0	941.8
27.5°	6264.1	6062.0	5498.0	3552.9	1351.2	969.9	943.6	910.2	852.2	818.8	818.8
30°	6490.7	6265.8	5541.9	2734.0	994.5	857.5	836.4	785.4	706.4	662.4	662.4
32.5°	6831.6	6575.1	5513.8	1918.8	824.1	753.8	704.6	634.3	548.2	506.0	504.3
35°	7353.5	7053.0	5313.5	1258.1	727.4	655.4	576.3	490.2	414.7	379.5	377.8
37.5°	8056.3	7692.6	4863.6	899.6	651.9	564.0	469.1	374.3	318.0	295.2	293.4
40°	8968.2	8435.8	4220.5	729.2	581.6	476.2	362.0	289.9	251.3	233.7	235.5
42.5°	10062.9	9231.8	3449.2	629.0	513.1	391.8	282.9	228.4	203.8	191.5	188.0
45°	11278.8	10017.2	2640.9	560.5	444.5	316.3	221.4	181.0	161.7	154.6	154.6
47.5°	12616.0	10781.6	1932.8	500.8	370.7	244.2	177.5	147.6	131.8	126.5	124.8
50°	13830.1	11312.2	1393.4	437.5	304.0	193.3	144.1	123.0	112.5	105.4	105.4
52.5°	14842.2	11479.1	1026.1	369.0	246.0	154.6	119.5	105.4	94.9	89.6	89.6
55°	15733.1	11410.6	762.6	304.0	198.6	126.5	101.9	89.6	80.8	75.6	75.6
57.5°	16587.0	11189.2	569.3	247.8	159.9	101.9	86.1	75.6	66.8	63.3	63.3
60°	17284.6	10820.2	423.5	200.3	128.3	82.6	72.0	61.5	54.5	49.2	49.2
62.5°	17850.4	10412.6	311.0	165.2	101.9	65.0	56.2	51.0	40.4	35.1	35.1
65°	17853.9	9736.1	233.7	137.1	79.1	51.0	42.2	40.4	26.4	21.1	19.3
67.5°	16562.4	8393.7	179.2	117.7	61.5	38.7	31.6	33.4	14.1	8.8	7.0
68°	16093.3	8052.8	168.7	116.0	58.0	36.9	29.9	33.4	12.3	7.0	5.3
70°	13568.3	6406.4	135.3	112.5	51.0	28.1	24.6	33.4	10.5	5.3	3.5
72.5°	8678.3	3718.0	100.2	89.6	38.7	21.1	15.8	29.9	10.5	3.5	1.8
75°	3693.4	1152.7	68.5	63.3	22.8	15.8	10.5	19.3	7.0	1.8	0.0
77.5°	778.4	260.1	40.4	38.7	15.8	10.5	7.0	5.3	1.8	0.0	0.0
80°	200.3	75.6	21.1	19.3	8.8	5.3	3.5	0.0	0.0	0.0	0.0
82.5°	63.3	29.9	12.3	8.8	3.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	31.6	17.6	7.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.6	5.3	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)