

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: P382998

Luminaire Tested: **GLEON-SA3C-735-U-SL3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382998  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA3C-735-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 1050mA 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: 17185.2 lumens  
Efficiency: N/A  
Efficacy: 103.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

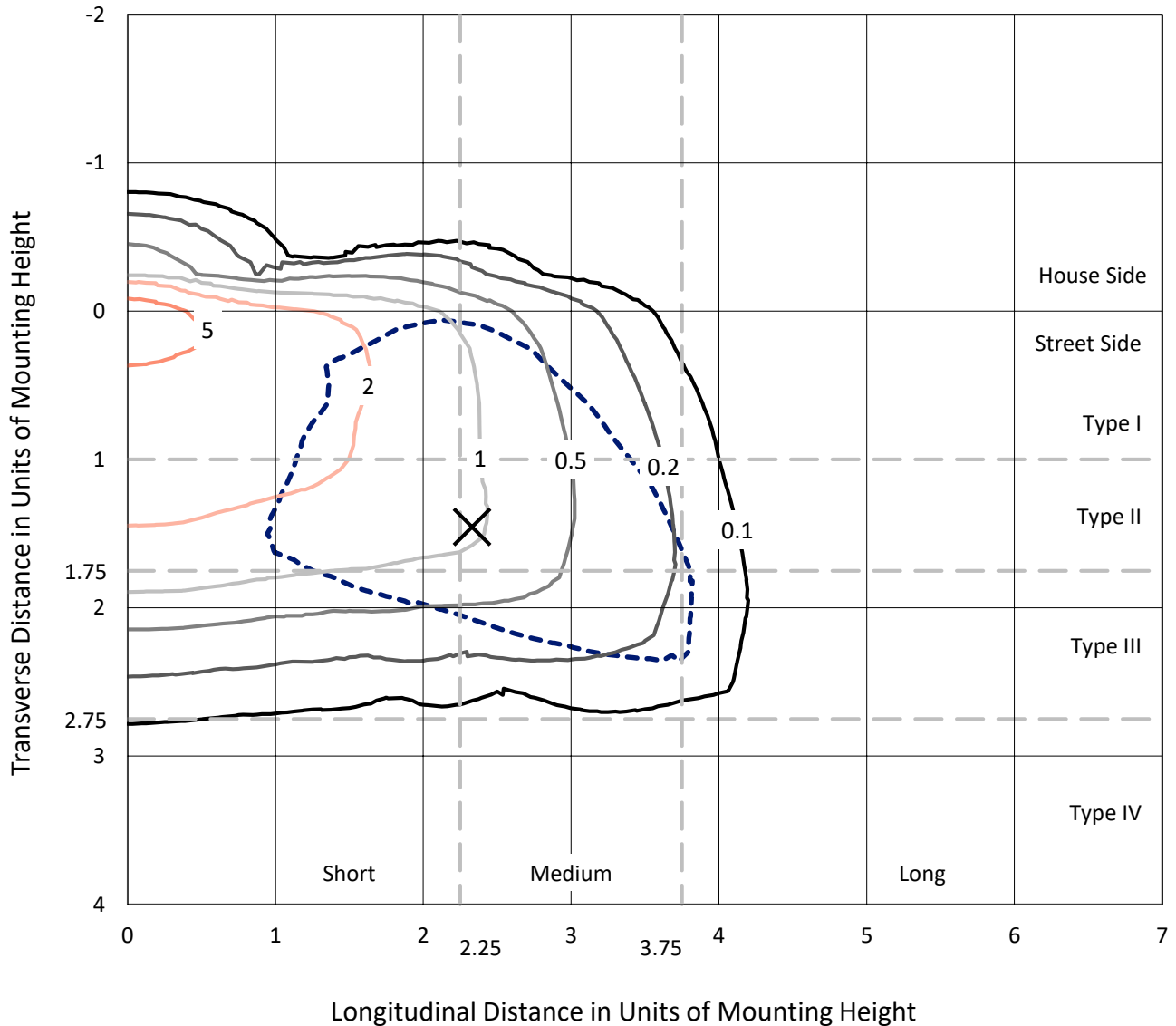
Input Watts (W): 166  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

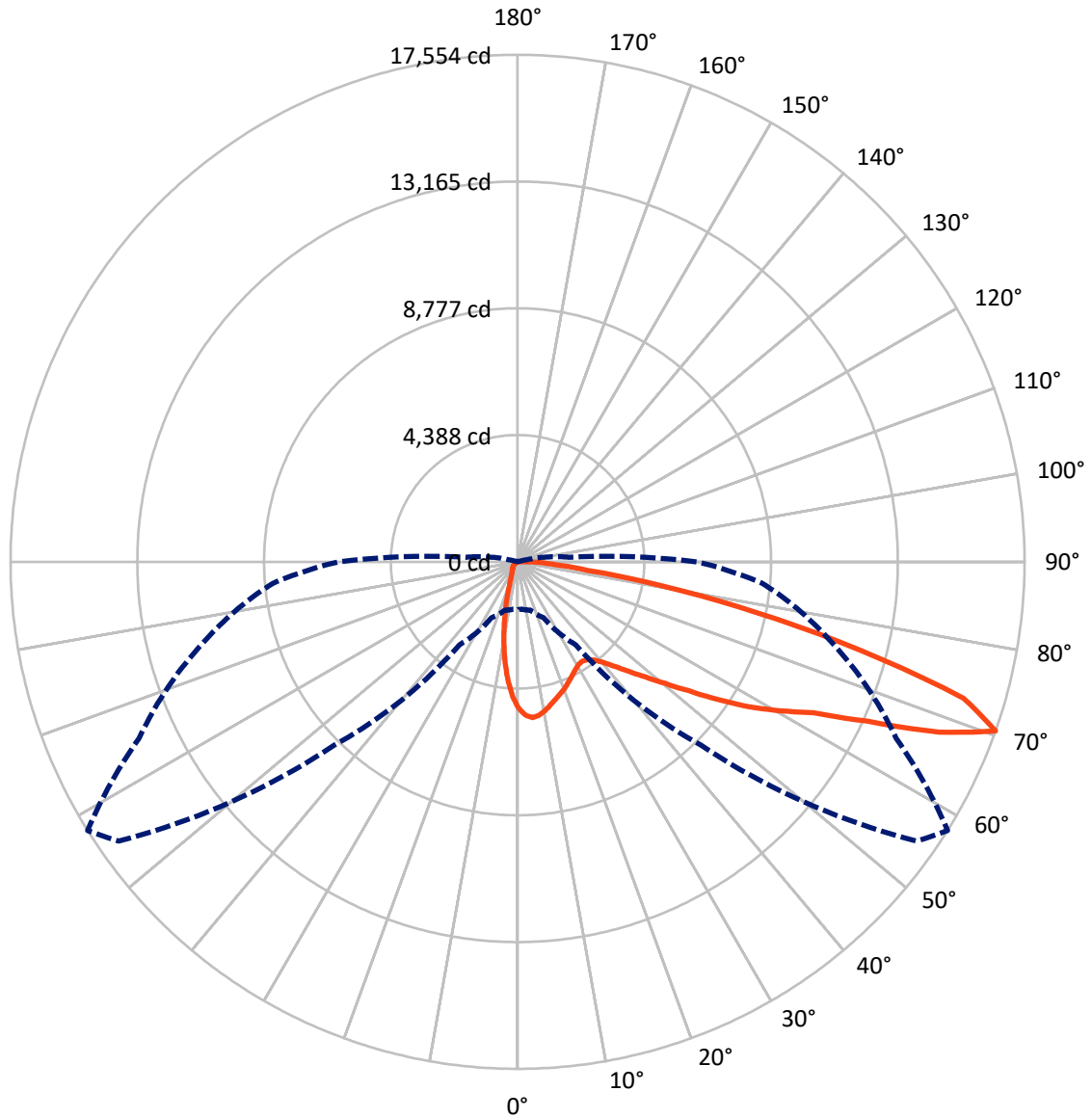
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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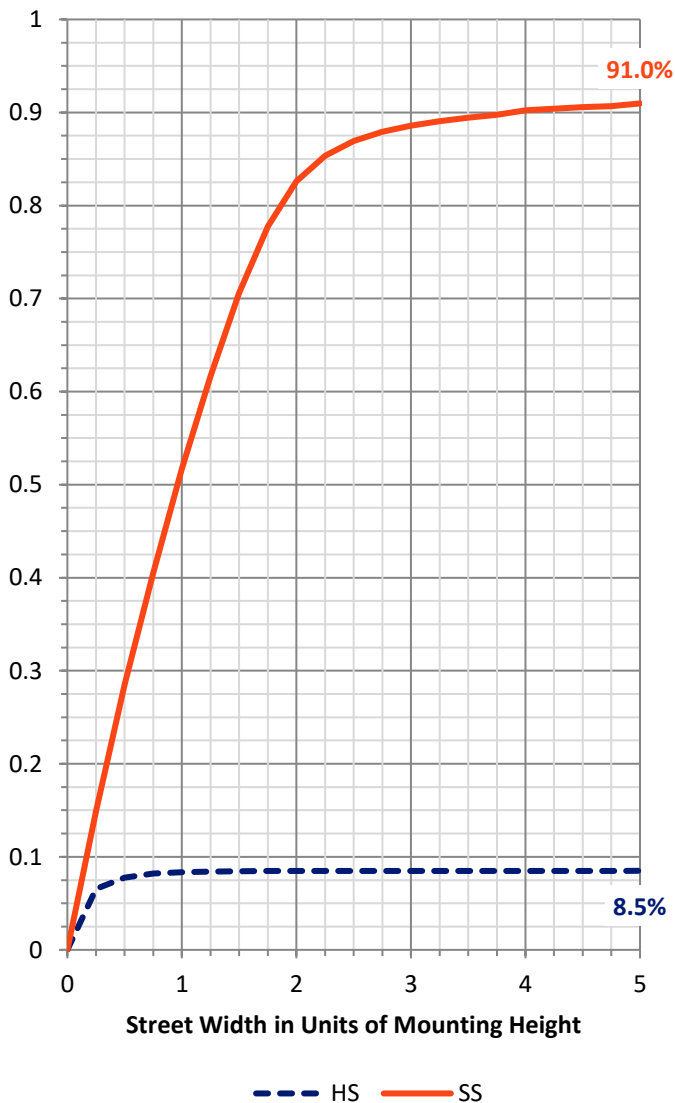
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1470.7	0.0	1470.7
	% Fixture	8.6	0.0	8.6
<b>Street Side</b>	Lumens	15714.5	0.0	15714.5
	% Fixture	91.4	0.0	91.4
<b>Total</b>	Lumens	17185.2	0.0	17185.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	415.1	2.4
10°-20°	871.2	5.1
20°-30°	1145.4	6.7
30°-40°	1516.9	8.8
40°-50°	2267.3	13.2
50°-60°	3632.2	21.1
60°-70°	4578.3	26.6
70°-80°	2469.5	14.4
80°-90°	289.1	1.7
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°	17185.2	100.0
0°-180°	17185.2	100.0

**Coefficient of Utilization**

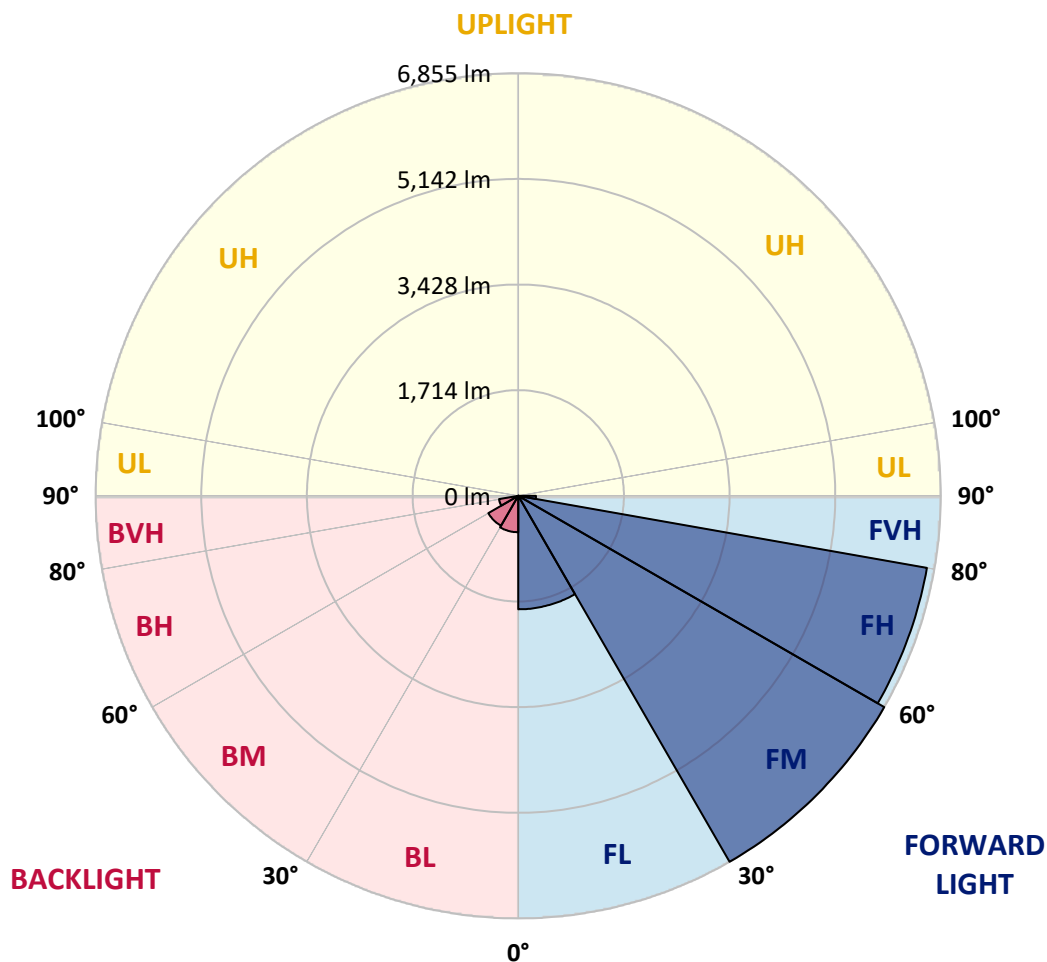


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1840.9	10.7			
FM (30°-60°)	6855.4	39.9			
FH (60°-80°)	6731.6	39.2			G3/7500
FVH (80°-90°)	286.6	1.7			G3/500
BL (0°-30°)	590.9	3.4	B2/1000		
BM (30°-60°)	561.0	3.3	B1/1000		
BH (60°-80°)	316.3	1.8	B1/500		G1/500
BVH (80°-90°)	2.5	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-G3**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5076.5	5076.5	5076.5	5076.5	5076.5	5076.5	5076.5	5076.5	5076.5	5076.5	5076.5
2.5°	5497.3	5483.7	5478.7	5470.1	5437.3	5405.1	5341.5	5323.7	5283.6	5188.6	5087.8
5°	5501.6	5500.9	5515.9	5512.3	5500.9	5485.9	5440.1	5416.6	5348.7	5212.9	5028.6
7.5°	5236.5	5250.1	5283.6	5310.8	5342.2	5382.9	5388.7	5365.8	5310.1	5163.6	4919.2
10°	4880.7	4902.1	4949.2	5002.8	5085.0	5166.5	5239.3	5236.5	5217.2	5072.8	4787.7
12.5°	4524.1	4549.0	4603.3	4682.7	4799.1	4932.1	5062.1	5080.0	5112.1	4991.4	4666.2
15°	4211.8	4233.2	4286.8	4384.0	4528.3	4707.0	4897.8	4930.7	5013.5	4927.8	4564.8
17.5°	3946.7	3960.2	3999.5	4107.5	4274.7	4491.2	4739.2	4803.4	4927.0	4877.8	4476.9
20°	3761.6	3763.7	3789.4	3865.2	4032.4	4274.7	4574.8	4667.0	4835.6	4834.9	4386.1
22.5°	3670.1	3662.9	3668.0	3711.6	3834.4	4068.2	4410.4	4519.8	4753.4	4798.5	4294.0
25°	3653.0	3647.3	3632.9	3638.7	3713.0	3887.3	4244.7	4371.1	4681.2	4776.3	4213.9
27.5°	3706.5	3712.3	3688.0	3662.3	3668.0	3770.2	4097.4	4243.9	4622.6	4776.3	4157.5
30°	3814.5	3817.3	3799.5	3765.9	3720.9	3737.3	3995.2	4141.8	4593.4	4809.2	4121.7
32.5°	3933.8	3949.5	3947.3	3920.2	3856.0	3789.4	3971.0	4104.6	4591.2	4882.1	4118.2
35°	4081.8	4099.6	4129.6	4123.9	4056.7	3947.3	4053.8	4158.9	4633.4	5002.1	4156.8
37.5°	4238.9	4266.1	4330.4	4361.1	4317.5	4193.9	4239.7	4314.6	4746.3	5196.5	4254.7
40°	4391.1	4421.9	4539.1	4659.8	4626.9	4499.7	4521.2	4581.3	4947.1	5475.9	4440.4
42.5°	4540.5	4586.2	4758.4	4957.0	4996.4	4894.9	4906.4	4954.2	5245.1	5860.4	4744.2
45°	4719.1	4770.5	5025.7	5270.8	5375.9	5331.5	5380.2	5411.5	5634.6	6368.4	5153.6
47.5°	4981.4	5040.7	5353.7	5633.1	5817.4	5846.0	5943.9	5964.7	6126.9	6960.1	5687.4
50°	5493.1	5509.5	5792.5	6046.1	6312.0	6483.5	6594.9	6610.6	6722.8	7606.7	6354.1
52.5°	6136.8	6147.6	6307.7	6477.7	6780.0	7130.2	7391.0	7413.2	7436.7	8237.0	7012.2
55°	6776.4	6775.0	6880.8	6980.8	7326.6	7835.4	8401.4	8414.9	8245.6	8835.2	7515.4
57.5°	7175.9	7214.5	7375.2	7503.9	7986.9	8639.4	9424.7	9474.7	9095.3	9278.2	8012.7
60°	7048.6	7067.3	7423.9	7899.7	8809.5	9782.0	10460.2	10473.0	9734.1	9720.5	8641.5
62.5°	6005.4	6015.4	6575.6	7556.7	9226.0	11264.0	11709.2	11499.9	10468.7	10334.3	9393.9
65°	4116.0	4181.1	4649.1	5861.8	8460.7	12193.7	13642.9	13296.4	11588.5	11219.0	10074.2
67.5°	2423.9	2410.3	2641.9	3535.0	6214.1	11576.3	16088.9	15744.5	13115.5	11811.4	9874.9
70°	1655.7	1646.4	1735.0	2140.2	3507.9	8980.2	16858.5	17553.8	14464.0	11412.7	8498.6
72.5°	1181.9	1186.9	1317.7	1662.8	2202.4	5232.2	14497.5	16143.3	14041.6	9949.2	6459.9
75°	802.4	816.0	1003.3	1364.2	1930.8	2661.8	10287.9	12271.6	11434.1	7230.9	3713.0
77.5°	431.6	446.6	667.5	1099.0	1745.7	1849.3	6617.8	8445.7	7182.3	3250.6	1076.1
80°	180.1	188.6	312.3	798.9	1508.5	1624.2	3893.8	5121.5	3060.6	641.0	240.1
82.5°	77.9	82.2	130.0	476.7	1127.6	1371.3	2061.6	2463.9	927.5	140.8	120.7
85°	15.0	15.7	53.6	252.3	719.6	773.9	1336.3	1309.8	416.6	60.7	87.9
87.5°	0.0	0.0	12.9	79.3	211.6	421.6	815.4	805.3	141.5	29.3	32.9
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°	5076.5	5076.5	5076.5	5076.5	5076.5	5076.5	5076.5	5076.5	5076.5	5076.5	5076.5
2.5°	5036.4	4987.1	4883.5	4755.6	4657.6	4549.8	4464.1	4355.5	4308.2	4310.4	4284.7
5°	4923.5	4822.1	4592.6	4303.3	4080.3	3850.2	3652.2	3455.0	3338.6	3300.7	3265.0
7.5°	4762.0	4601.2	4235.4	3789.4	3412.2	3043.5	2722.5	2440.3	2261.7	2174.5	2142.4
10°	4579.8	4354.0	3824.5	3237.0	2698.3	2199.5	1783.6	1422.0	1277.7	1179.8	1154.7
12.5°	4419.7	4113.9	3422.9	2670.4	2030.9	1429.2	1032.6	807.5	709.6	671.0	664.6
15°	4268.9	3889.5	3036.3	2157.4	1406.3	879.7	656.7	580.3	557.3	550.9	550.9
17.5°	4126.8	3675.8	2658.3	1652.1	930.4	616.7	543.8	526.6	519.5	518.8	519.5
20°	3978.1	3462.2	2286.7	1210.5	649.6	522.3	502.4	493.1	490.9	490.9	490.9
22.5°	3835.9	3248.5	1925.1	864.7	520.9	476.7	466.6	460.2	458.0	457.3	455.9
25°	3699.5	3045.6	1572.1	611.0	457.3	436.6	428.0	419.5	413.0	409.4	407.3
27.5°	3587.2	2864.8	1243.3	490.2	413.0	395.2	384.4	371.6	355.9	348.7	345.9
30°	3497.9	2699.7	958.3	413.7	371.6	353.7	337.3	315.1	292.2	280.1	279.4
32.5°	3427.9	2537.5	727.4	365.9	334.4	312.3	288.7	260.8	234.4	220.8	220.1
35°	3393.5	2394.5	555.9	330.9	301.5	273.7	244.3	213.7	187.9	175.0	173.6
37.5°	3416.5	2273.8	433.7	301.5	273.7	241.6	207.3	175.0	152.2	140.8	140.1
40°	3500.0	2196.7	352.3	276.6	250.1	210.8	173.6	143.6	124.4	115.0	114.3
42.5°	3677.9	2168.1	300.8	255.8	227.2	182.2	144.4	118.6	100.8	94.4	92.9
45°	3975.3	2210.2	265.9	235.8	203.6	155.1	119.3	97.2	81.4	76.5	75.7
47.5°	4371.1	2321.0	240.8	216.5	182.2	130.8	99.3	78.6	66.4	61.5	60.7
50°	4881.3	2496.7	220.1	197.2	162.2	110.8	82.2	62.1	51.4	47.9	47.9
52.5°	5436.6	2706.1	201.5	179.3	142.2	92.2	66.4	47.9	40.7	36.4	36.4
55°	5895.3	2889.1	181.5	165.8	117.9	76.5	50.8	36.4	30.0	27.9	27.9
57.5°	6353.4	3084.2	158.6	142.2	94.4	62.1	38.6	27.1	22.2	20.7	20.7
60°	6947.2	3322.8	136.5	115.8	74.3	47.1	28.6	19.3	16.4	15.7	15.7
62.5°	7600.3	3462.8	116.4	92.9	57.8	35.0	20.7	12.9	12.1	12.1	11.5
65°	7999.8	3265.0	97.9	74.3	45.0	26.5	13.6	9.3	10.7	10.0	8.6
67.5°	7490.3	2556.1	80.0	57.8	35.0	20.0	8.6	6.4	11.5	9.3	7.2
70°	6201.9	1789.3	62.1	40.7	27.9	17.1	5.7	4.3	12.1	9.3	5.7
72.5°	4641.2	1197.7	49.3	27.1	20.7	15.0	5.0	2.1	10.7	7.8	5.0
75°	2536.0	482.4	39.3	17.1	12.9	10.7	3.5	1.4	7.2	5.7	3.5
77.5°	667.5	127.2	28.6	11.5	7.2	4.3	2.1	0.7	3.5	2.9	1.4
80°	170.1	49.3	18.5	7.8	5.0	2.1	0.0	0.0	0.7	0.0	0.0
82.5°	90.7	20.7	11.5	5.7	2.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	68.6	13.6	6.4	3.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	26.5	4.3	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)