

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: P383140

Luminaire Tested: **GLEON-SA4D-735-U-SL4-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383140  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA4D-735-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23664.1 lumens  
Efficiency: N/A  
Efficacy: 91.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 258  
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

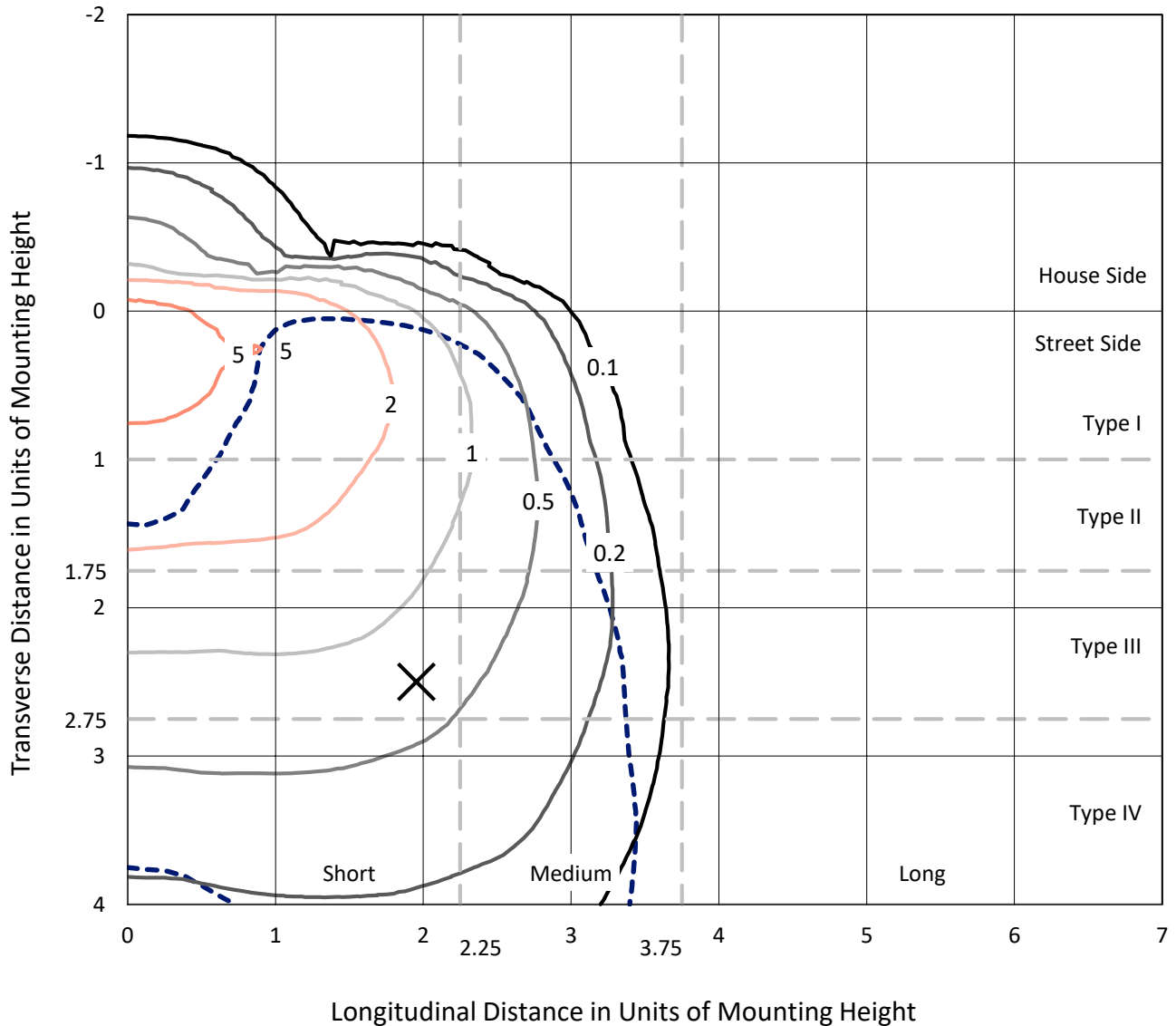




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### Iso-Footcandle Lines of Horizontal Illumination

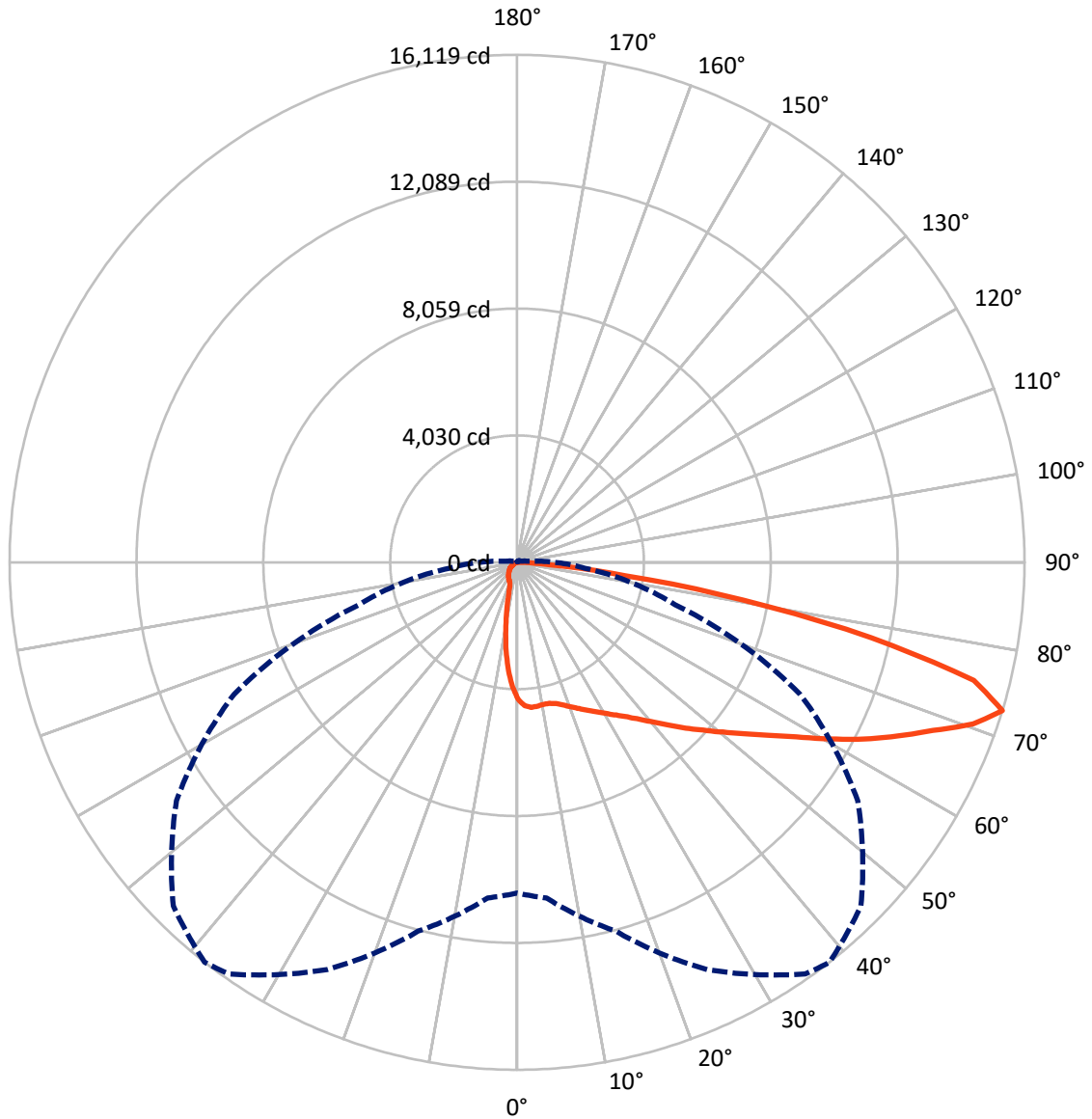
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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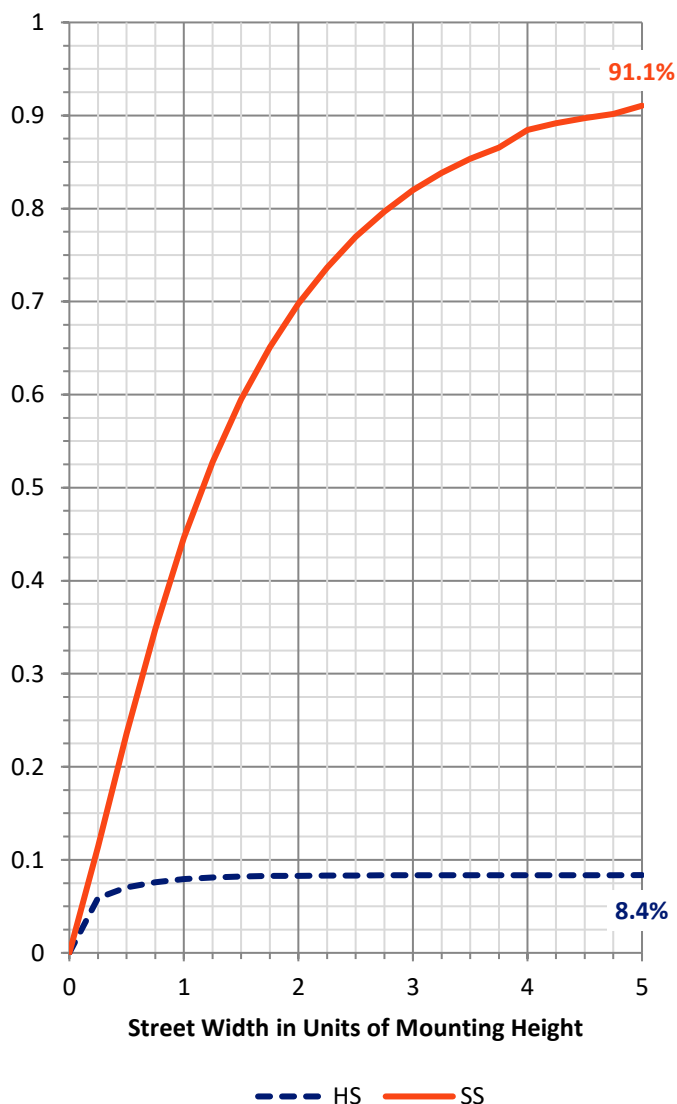
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1991.4	0.0	1991.4
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	21672.7	0.0	21672.7
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	23664.1	0.0	23664.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	370.9	1.6
10°-20°	906.8	3.8
20°-30°	1442.3	6.1
30°-40°	2168.3	9.2
40°-50°	3307.9	14.0
50°-60°	4675.2	19.8
60°-70°	5864.2	24.8
70°-80°	4384.8	18.5
80°-90°	543.7	2.3
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°	23664.1	100.0
0°-180°	23664.1	100.0

**Coefficient of Utilization**



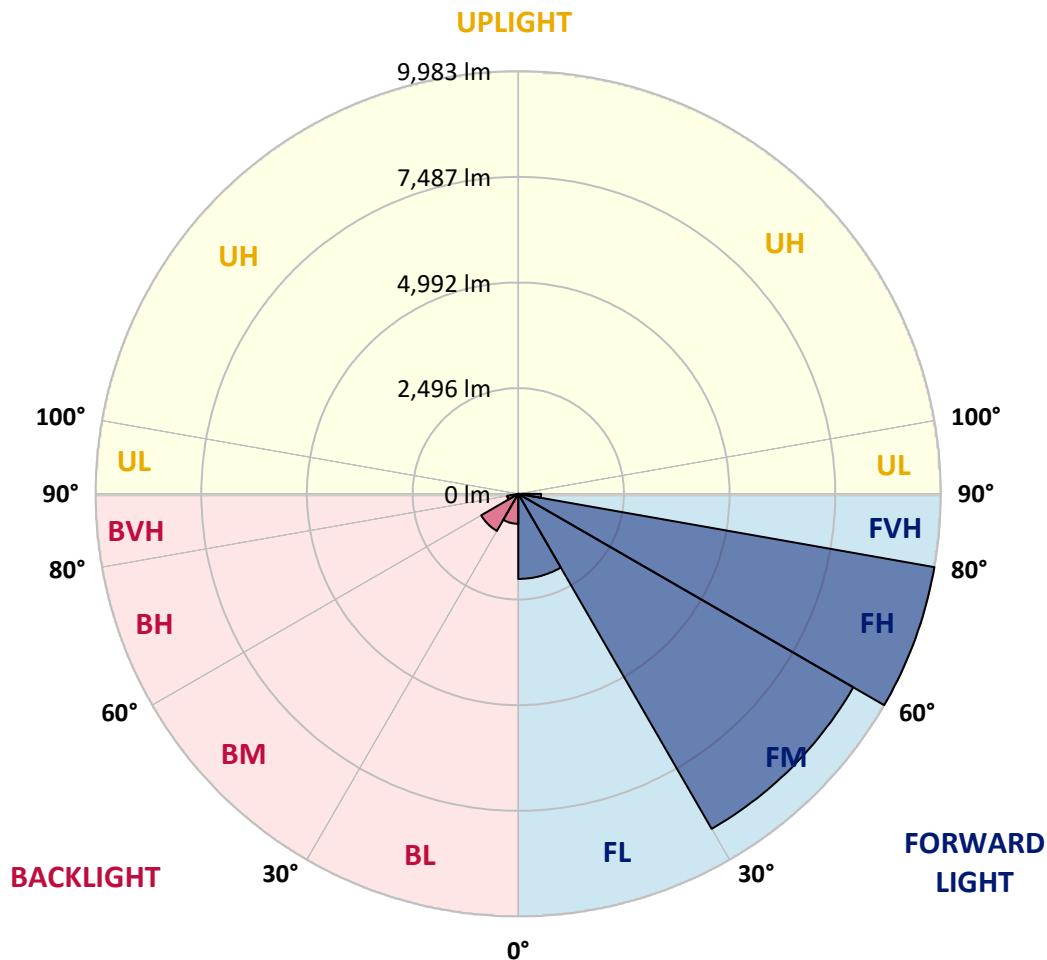
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2010.9	8.5			
FM (30°-60°)	9140.1	38.6			
FH (60°-80°)	9983.0	42.2			G4/12000
FVH (80°-90°)	538.6	2.3			G4/750
BL (0°-30°)	709.1	3.0	B2/1000		
BM (30°-60°)	1011.3	4.3	B2/2500		
BH (60°-80°)	266.0	1.1	B1/500		G1/500
BVH (80°-90°)	5.1	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-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	4351.7	4351.7	4351.7	4351.7	4351.7	4351.7	4351.7	4351.7	4351.7	4351.7	4351.7
2.5°	4619.1	4620.0	4609.2	4591.5	4569.0	4557.1	4537.5	4506.1	4472.6	4412.6	4347.8
5°	4713.4	4713.4	4699.7	4676.1	4639.7	4628.9	4591.5	4541.4	4472.6	4375.3	4266.2
7.5°	4703.6	4705.5	4686.9	4662.3	4626.0	4616.1	4570.9	4514.9	4429.4	4311.5	4171.9
10°	4652.5	4657.4	4642.6	4630.8	4597.5	4586.7	4544.4	4488.4	4402.9	4277.0	4116.9
12.5°	4600.4	4605.3	4610.2	4621.0	4600.4	4596.4	4563.1	4515.9	4434.3	4303.6	4122.8
15°	4567.0	4576.8	4612.2	4654.5	4659.3	4655.4	4633.8	4589.5	4507.0	4371.4	4165.0
17.5°	4567.0	4582.7	4656.4	4737.0	4765.5	4768.4	4749.8	4687.8	4589.5	4444.1	4204.4
20°	4605.3	4626.9	4741.9	4855.9	4903.1	4903.1	4866.7	4780.2	4665.3	4510.0	4230.9
22.5°	4703.6	4732.1	4876.6	5008.3	5058.4	5047.6	4998.4	4872.6	4743.9	4584.7	4264.3
25°	4897.2	4918.9	5069.2	5201.9	5232.3	5207.7	5145.9	4984.6	4844.1	4685.9	4325.2
27.5°	5146.8	5149.8	5305.1	5417.0	5398.4	5381.7	5304.0	5125.2	4988.6	4830.4	4430.3
30°	5421.0	5421.0	5557.6	5643.1	5586.1	5572.3	5494.7	5295.2	5173.3	5026.9	4579.8
32.5°	5686.4	5698.2	5809.2	5863.3	5799.3	5785.7	5709.9	5510.5	5419.1	5326.7	4812.7
35°	5942.9	5951.8	6056.8	6086.4	6025.4	6029.3	5975.3	5806.2	5771.9	5760.0	5163.6
37.5°	6191.5	6193.5	6300.6	6319.2	6288.8	6322.2	6327.2	6177.7	6241.6	6336.9	5657.8
40°	6418.5	6420.5	6526.6	6574.8	6626.8	6670.2	6708.4	6628.9	6840.2	7061.3	6246.6
42.5°	6600.4	6621.0	6755.7	6847.1	6984.7	7067.2	7171.3	7167.4	7552.7	7884.8	6958.1
45°	6760.5	6795.9	6983.6	7143.9	7379.7	7511.3	7674.6	7802.3	8354.6	8801.8	7678.5
47.5°	6971.9	7005.2	7219.5	7481.9	7796.4	7969.4	8239.6	8515.8	9236.2	9702.0	8382.2
50°	7269.6	7254.9	7466.2	7842.6	8246.5	8473.5	8858.7	9272.5	10110.8	10486.2	8795.9
52.5°	7587.1	7581.1	7737.4	8234.7	8777.2	9042.5	9551.6	10054.8	10947.2	11026.8	8985.5
55°	7980.2	7937.9	8069.6	8681.8	9407.1	9692.2	10291.6	10829.2	11613.5	11331.4	9080.9
57.5°	8391.9	8322.2	8448.0	9180.1	10117.7	10454.9	11111.3	11584.1	12056.7	11539.8	9079.9
60°	8817.5	8734.9	8884.4	9803.2	11000.3	11390.4	11999.7	12094.1	12470.5	11645.0	9013.1
62.5°	9173.2	9124.1	9346.2	10469.6	11985.9	12369.3	12671.0	12558.0	12819.4	11726.5	8856.8
65°	9549.7	9552.6	9911.3	11246.9	13033.7	13292.1	13317.7	13159.4	13111.3	11709.8	8328.0
67.5°	10058.8	10105.9	10704.4	12302.5	14052.8	14252.3	14250.3	13811.0	13324.6	11045.5	7155.6
70°	10597.3	10708.4	11618.4	13510.2	15165.3	15367.7	15263.6	14225.8	12546.2	8931.5	5064.3
72.5°	10506.9	10699.6	12126.5	14272.0	15964.3	16118.6	15441.4	13206.6	9916.2	5191.0	2156.3
75°	8106.0	8329.1	11119.1	13517.1	15126.0	14987.4	13267.6	10276.9	5419.1	1448.6	485.5
77.5°	4282.0	4400.9	7345.3	10297.6	11794.3	11504.4	9346.2	5701.1	1652.1	358.7	218.2
80°	2242.7	2270.2	3200.9	5842.7	7279.5	7281.4	5539.0	2504.1	681.1	183.8	146.4
82.5°	1201.0	1224.5	1691.4	2699.7	3814.1	3457.4	2120.9	1377.9	396.1	104.1	140.6
85°	289.0	293.8	959.2	1233.4	1499.7	1071.2	630.0	1156.7	107.1	60.9	114.0
87.5°	111.0	113.0	355.8	533.7	382.3	247.7	294.8	431.4	13.8	23.6	17.7
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°	4351.7	4351.7	4351.7	4351.7	4351.7	4351.7	4351.7	4351.7	4351.7	4351.7	4351.7
2.5°	4308.5	4283.0	4220.1	4140.4	4069.7	4018.6	3941.9	3891.8	3858.4	3857.4	3844.6
5°	4199.4	4147.3	4011.7	3850.6	3704.1	3572.4	3417.1	3294.3	3202.8	3188.1	3156.7
7.5°	4082.5	3997.0	3788.6	3537.0	3291.3	3041.7	2751.8	2571.9	2417.6	2344.0	2336.0
10°	4010.7	3890.8	3595.0	3231.4	2846.2	2440.3	2060.9	1798.4	1608.8	1554.8	1514.5
12.5°	3996.0	3837.8	3445.6	2944.4	2394.1	1857.4	1437.8	1158.7	1007.4	959.2	946.5
15°	4010.7	3813.2	3319.8	2660.4	1936.0	1318.0	965.1	802.9	745.9	732.2	731.2
17.5°	4019.5	3783.7	3177.3	2344.9	1491.9	941.5	739.1	691.9	683.0	682.1	684.0
20°	4018.6	3738.5	3007.3	1993.0	1109.6	740.0	668.3	658.4	656.5	657.5	656.5
22.5°	4011.7	3685.4	2820.5	1630.4	838.3	661.4	637.8	632.0	630.9	630.9	630.9
25°	4024.5	3643.2	2615.1	1283.5	690.9	625.1	610.3	605.4	604.4	604.4	602.4
27.5°	4070.7	3619.6	2390.2	987.7	624.0	592.7	580.8	579.8	576.9	575.9	577.8
30°	4145.4	3619.6	2143.4	768.5	583.8	559.2	550.4	548.4	547.4	546.4	547.4
32.5°	4277.0	3647.1	1874.2	638.8	545.4	521.9	516.0	518.9	516.0	516.0	516.0
35°	4514.9	3729.6	1592.1	557.3	505.2	485.5	479.6	483.6	481.5	481.5	480.6
37.5°	4861.8	3883.0	1308.1	508.1	469.8	449.1	441.3	447.1	445.2	445.2	444.3
40°	5284.4	4106.1	1037.8	470.7	435.4	413.8	406.9	409.8	404.9	404.9	406.9
42.5°	5806.2	4389.1	802.0	434.4	400.9	380.4	376.4	373.5	364.6	359.7	360.7
45°	6386.1	4683.9	625.1	399.0	368.5	351.8	346.0	338.1	323.3	313.5	314.5
47.5°	6904.1	4910.9	508.1	364.6	339.1	326.3	317.5	302.7	281.0	269.3	270.2
50°	7176.3	4945.3	432.4	330.2	311.5	298.7	286.0	263.3	237.8	225.1	224.0
52.5°	7246.0	4784.1	376.4	298.7	284.0	269.3	252.5	222.1	193.6	179.9	177.9
55°	7271.6	4538.5	326.3	269.3	254.5	237.8	216.2	181.8	155.3	141.5	140.6
57.5°	7187.1	4171.9	287.0	242.8	225.1	204.4	177.9	145.4	119.9	109.1	109.1
60°	6999.4	3675.6	256.5	214.3	194.6	171.0	143.5	113.0	89.4	80.6	80.6
62.5°	6624.9	3032.8	228.0	184.7	166.1	141.5	116.0	85.5	62.9	57.9	59.0
65°	5918.3	2300.6	199.5	158.3	141.5	116.9	90.5	60.9	42.3	42.3	44.2
67.5°	4826.4	1598.0	170.0	134.6	121.8	95.3	68.7	42.3	29.4	33.4	37.4
70°	3195.0	896.3	145.4	111.0	104.1	75.6	51.1	28.5	23.6	31.5	38.3
72.5°	1205.9	348.9	121.8	89.4	90.5	57.9	36.3	21.6	21.6	34.4	45.2
75°	336.1	171.0	87.5	65.9	70.8	42.3	26.5	18.6	20.7	39.3	53.1
77.5°	197.6	125.8	57.0	38.3	48.2	29.4	17.7	14.7	17.7	33.4	51.1
80°	159.2	66.8	33.4	19.7	26.5	16.7	11.8	8.8	4.9	12.8	26.5
82.5°	159.2	40.3	15.7	13.8	13.8	8.8	5.9	3.9	1.0	0.0	6.9
85°	107.1	16.7	9.8	8.8	6.9	3.0	2.0	1.0	0.0	0.0	0.0
87.5°	17.7	6.9	3.9	2.0	1.0	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)