

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: P300997

Luminaire Tested: **GLNA-AF-07-LED-E1-SL4-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300997
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-07-LED-E1-SL4-7030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Square Wide OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25403.6 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G4

Input Watts (W): 226
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

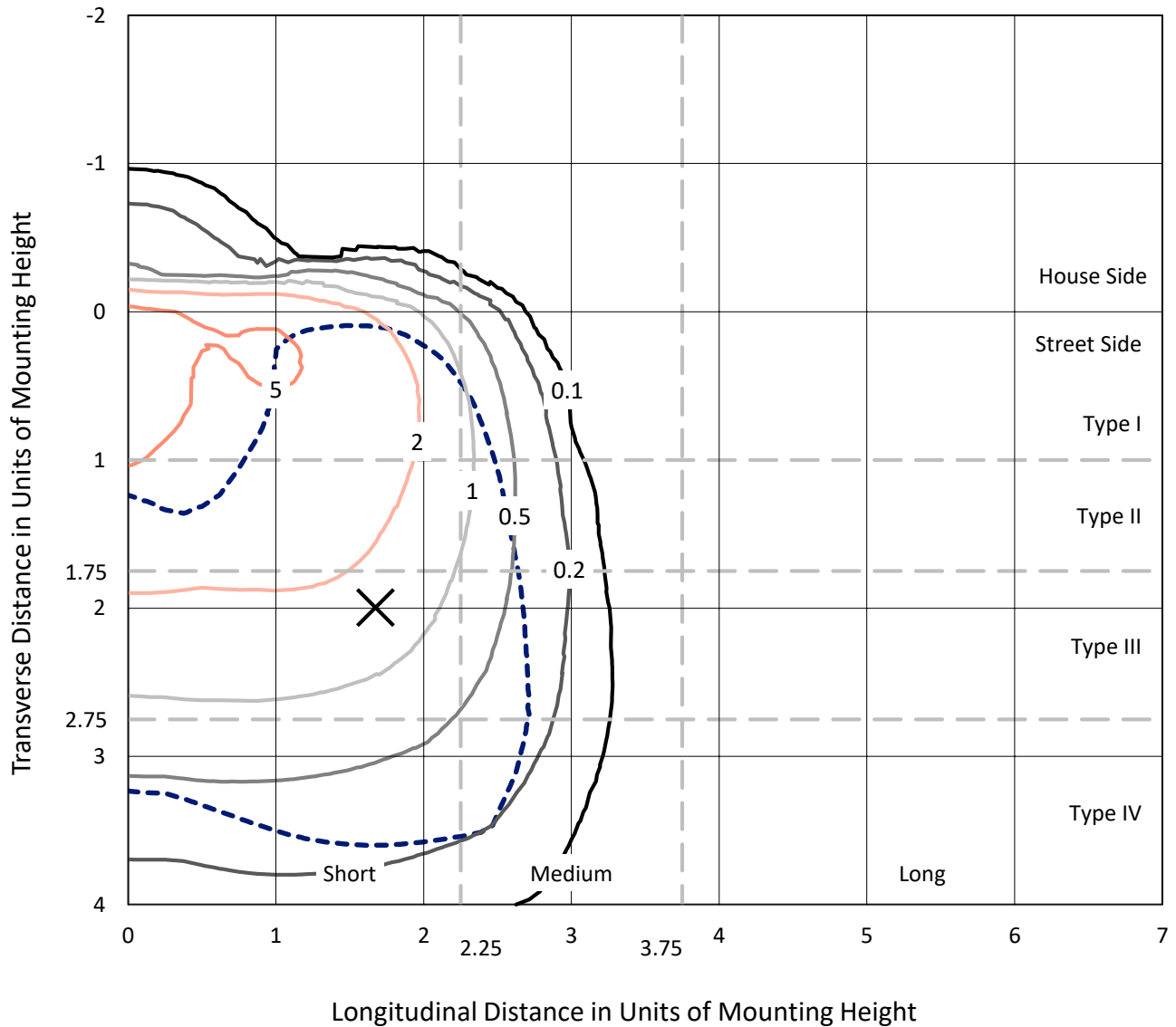


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Iso-Footcandle Lines of Horizontal Illumination

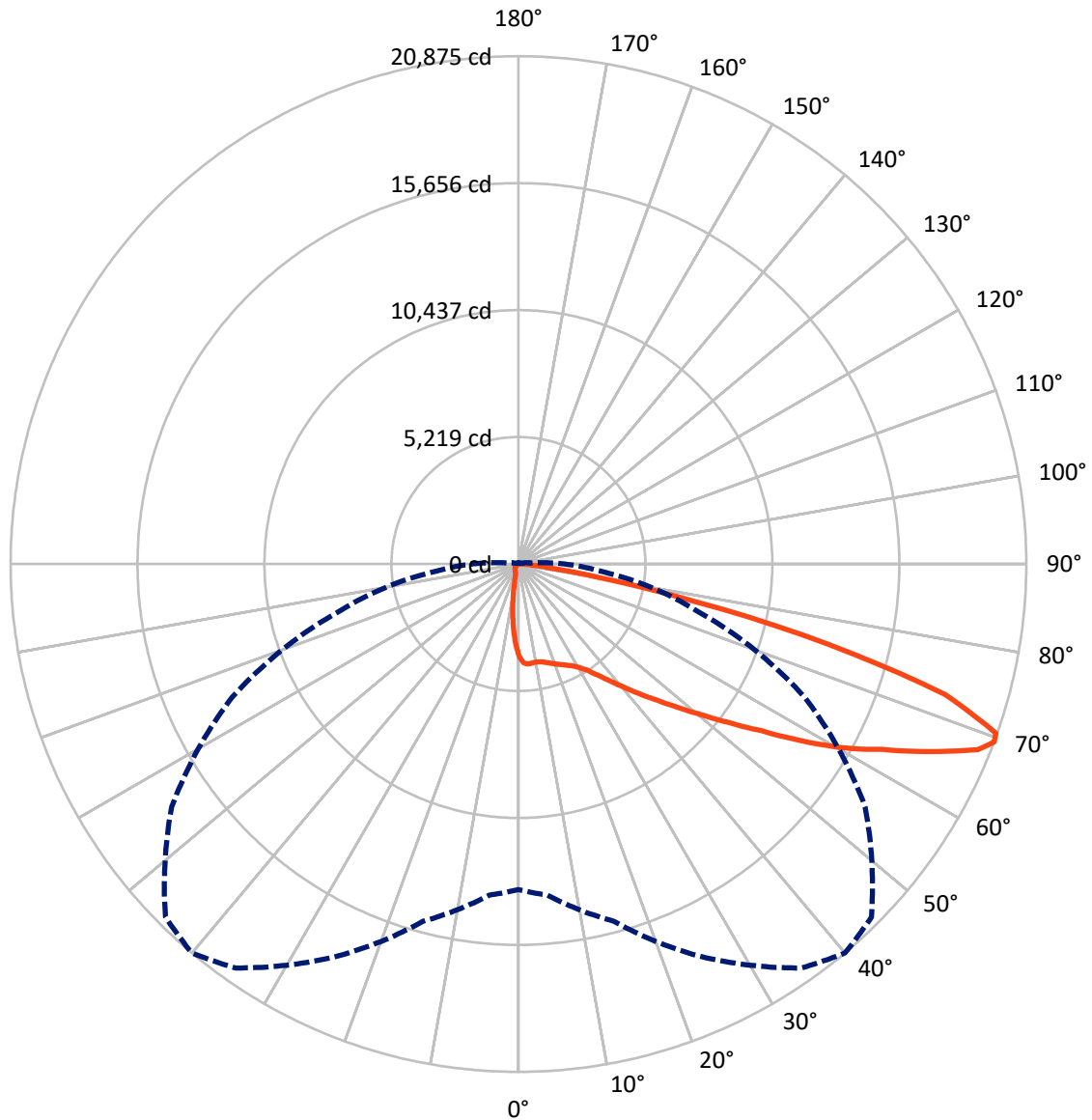
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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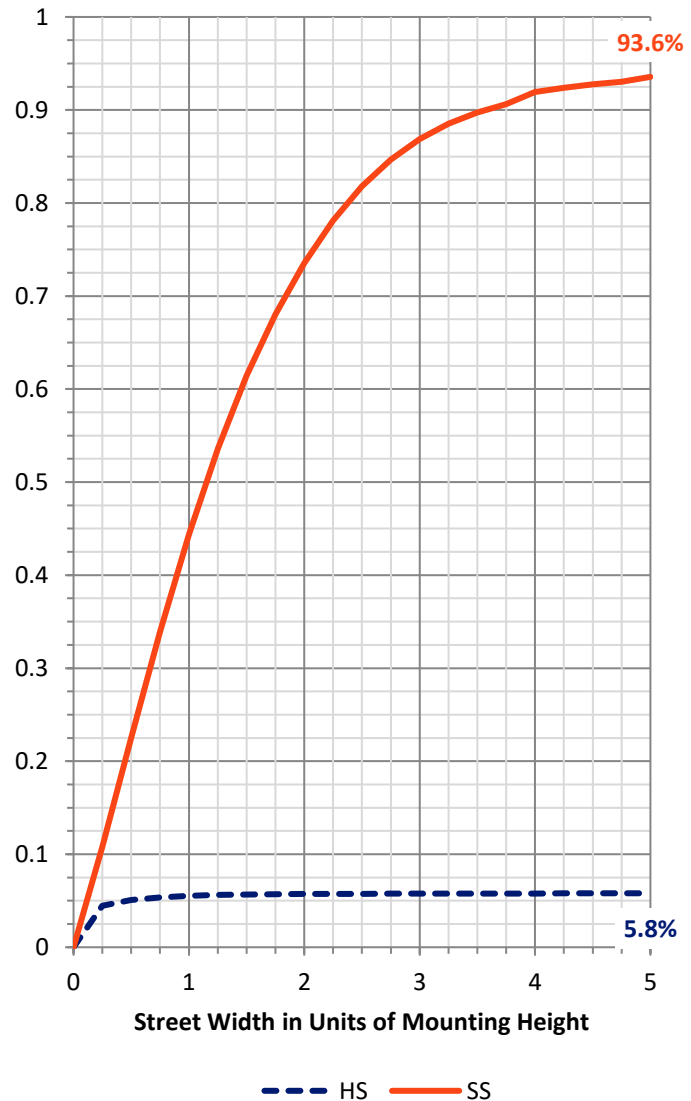
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1486.3	0.0	1486.3
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	23917.4	0.0	23917.4
	% Fixture	94.1	0.0	94.1
Total	Lumens	25403.6	0.0	25403.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.7	1.2
10°-20°	756.8	3.0
20°-30°	1274.7	5.0
30°-40°	2086.7	8.2
40°-50°	3613.0	14.2
50°-60°	5690.9	22.4
60°-70°	7432.0	29.3
70°-80°	3827.8	15.1
80°-90°	414.1	1.6
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°	25403.6	100.0
0°-180°	25403.6	100.0

Coefficient of Utilization



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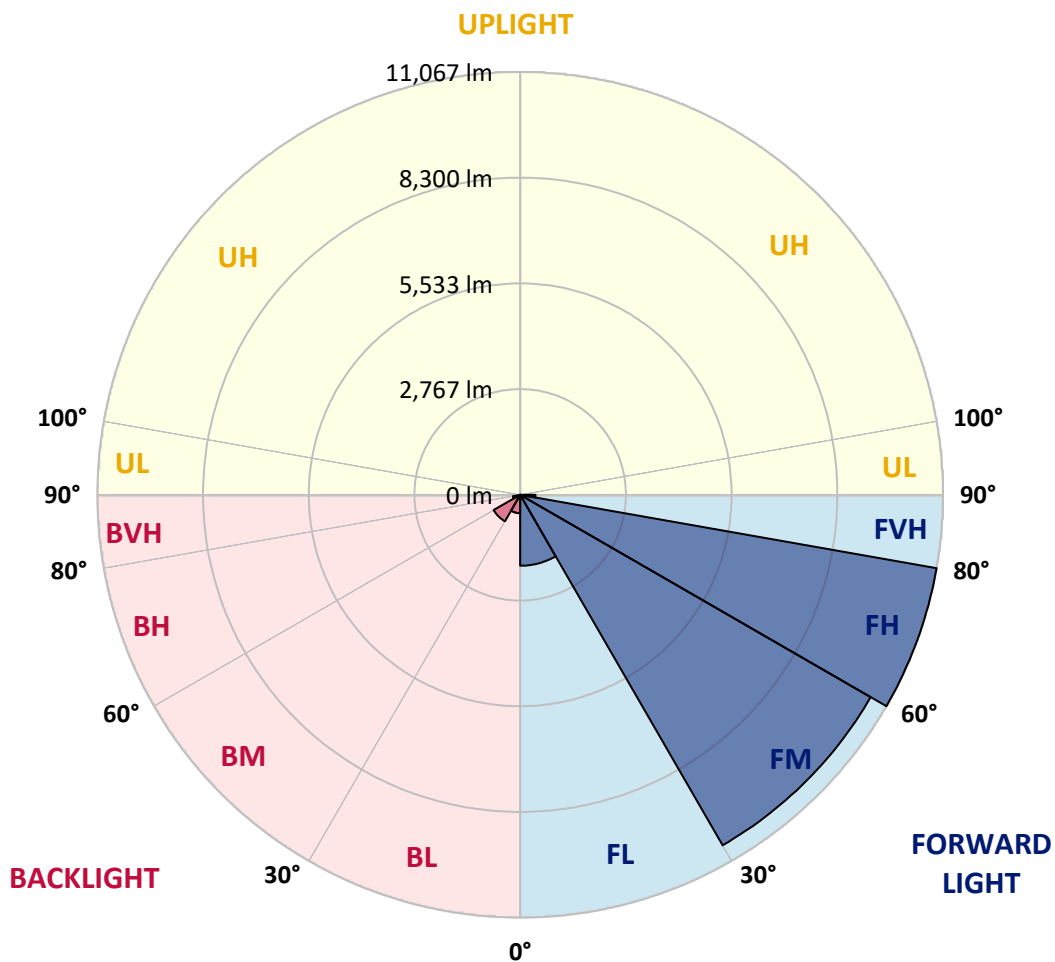
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1857.7	7.3			
FM (30°-60°)	10591.7	41.7			
FH (60°-80°)	11066.9	43.6			G4/12000
FVH (80°-90°)	401.1	1.6			G3/500
BL (0°-30°)	481.4	1.9	B1/500		
BM (30°-60°)	798.8	3.1	B1/1000		
BH (60°-80°)	193.0	0.8	B1/500		G1/500
BVH (80°-90°)	13.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	3795.4	3795.4	3795.4	3795.4	3795.4	3795.4	3795.4	3795.4	3795.4	3795.4	3795.4
2.5°	4167.4	4144.7	4131.1	4113.0	4090.3	4070.6	4063.1	4007.1	3954.2	3881.6	3798.5
5°	4244.5	4237.0	4212.8	4188.6	4161.4	4131.1	4114.5	4048.0	3972.4	3866.5	3721.3
7.5°	4252.1	4243.0	4212.8	4179.5	4141.7	4105.4	4076.7	4010.2	3940.6	3833.2	3656.3
10°	4240.0	4229.4	4206.7	4170.4	4123.6	4088.8	4060.1	3996.5	3937.6	3840.8	3644.2
12.5°	4226.4	4215.8	4205.2	4187.1	4146.2	4122.1	4097.9	4037.4	3984.4	3902.8	3688.1
15°	4240.0	4233.9	4246.0	4238.5	4215.8	4194.6	4170.4	4116.0	4067.6	3999.6	3768.2
17.5°	4297.5	4297.5	4335.3	4339.8	4318.6	4288.4	4253.6	4199.2	4158.3	4100.9	3863.5
20°	4432.0	4427.5	4475.9	4485.0	4433.5	4386.7	4335.3	4268.7	4237.0	4200.7	3957.2
22.5°	4663.4	4642.2	4671.0	4661.9	4560.6	4488.0	4424.5	4342.8	4326.2	4309.6	4061.6
25°	4964.3	4952.2	4971.9	4882.7	4704.2	4605.9	4530.3	4438.1	4438.1	4454.7	4179.5
27.5°	5401.3	5355.9	5289.4	5132.2	4864.5	4739.0	4657.3	4559.1	4584.8	4646.8	4335.3
30°	5848.9	5799.0	5646.3	5404.3	5059.6	4928.0	4832.8	4729.9	4790.4	4903.8	4543.9
32.5°	6290.4	6234.5	6018.3	5712.8	5339.3	5207.8	5115.5	5002.1	5103.4	5293.9	4849.4
35°	6718.4	6668.5	6419.0	6059.1	5711.3	5602.4	5517.7	5419.5	5549.5	5815.6	5280.3
37.5°	7199.2	7144.8	6840.9	6450.7	6163.4	6084.8	6022.8	5924.5	6151.3	6541.5	5880.7
40°	7790.5	7698.2	7288.4	6899.8	6686.6	6648.8	6606.5	6592.9	6945.2	7485.0	6680.6
42.5°	8467.9	8316.7	7757.2	7373.1	7261.2	7288.4	7277.9	7338.3	7938.7	8658.4	7654.4
45°	9145.3	8950.3	8278.9	7878.2	7893.3	7988.6	8047.5	8289.5	9183.1	10004.2	8702.3
47.5°	9719.9	9527.9	8779.4	8424.0	8605.5	8793.0	8953.3	9411.5	10462.4	11328.8	9517.3
50°	10211.4	10029.9	9310.2	9024.4	9432.6	9735.1	9995.1	10674.1	11838.4	12337.4	10088.9
52.5°	10613.6	10492.6	9860.6	9712.4	10377.7	10820.8	11201.8	12015.3	13057.2	13157.0	10533.5
55°	11005.2	10919.1	10451.8	10530.4	11487.6	12090.9	12573.3	13438.3	14106.6	13840.5	10959.9
57.5°	11455.9	11377.2	11126.2	11567.8	12946.8	13705.9	14232.1	14699.4	15030.5	14539.1	11362.1
60°	11915.5	11870.2	11876.2	12720.0	14622.2	15351.1	15641.4	15762.4	15937.8	15196.9	11384.8
62.5°	12354.1	12440.2	12733.6	14002.3	16226.6	16786.1	16932.8	17052.2	16846.6	15301.2	10518.3
65°	13096.5	13237.1	13937.3	15718.5	17991.3	18590.1	18741.3	18331.5	16990.2	13952.4	8555.6
67.5°	13459.4	13716.5	14965.5	17318.4	19703.0	20368.3	20312.4	18414.7	15246.8	10639.3	5490.5
69°	13383.8	13657.5	15202.9	17808.3	20271.5	20874.9	20519.5	17397.0	12989.2	7707.3	3370.5
70°	13084.4	13361.1	15080.4	17790.1	20344.1	20822.0	20135.5	16140.4	10982.6	5635.7	2107.9
72.5°	10926.6	11165.5	13388.4	16079.9	18741.3	18352.7	16845.1	11182.2	5351.4	1534.8	474.8
75°	6725.9	6859.0	9606.5	12113.6	14155.0	13157.0	11223.0	5563.1	1595.3	434.0	263.1
77.5°	3553.5	3614.0	5259.2	7140.3	8972.9	7424.5	5752.1	2169.9	734.9	272.2	190.5
80°	2100.3	2145.7	2832.2	3264.7	3883.1	3243.5	2299.9	1332.2	526.2	170.9	169.4
82.5°	1202.1	1230.9	2053.5	1814.5	1530.3	1306.5	1144.7	1262.6	316.0	114.9	175.4
85°	441.5	447.6	1155.3	1380.6	910.3	541.3	568.6	1046.4	84.7	72.6	137.6
87.5°	205.6	201.1	594.3	845.3	532.3	343.3	443.1	229.8	33.3	46.9	37.8
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°	3795.4	3795.4	3795.4	3795.4	3795.4	3795.4	3795.4	3795.4	3795.4	3795.4	3795.4
2.5°	3750.1	3694.1	3592.8	3488.5	3382.6	3301.0	3220.8	3157.3	3136.1	3096.8	3099.9
5°	3635.1	3532.3	3320.6	3105.9	2882.1	2697.6	2523.7	2383.1	2315.1	2245.5	2245.5
7.5°	3535.3	3385.6	3054.5	2705.2	2343.8	2039.9	1766.2	1560.5	1447.1	1356.4	1354.9
10°	3497.5	3294.9	2832.2	2331.7	1828.2	1413.8	1088.7	880.1	772.7	703.1	700.1
12.5°	3514.2	3263.2	2661.3	1986.9	1354.9	908.8	630.6	496.0	450.6	429.4	429.4
15°	3562.6	3254.1	2490.5	1649.7	957.2	568.6	418.9	382.6	379.5	379.5	379.5
17.5°	3621.5	3257.1	2315.1	1321.6	651.7	406.8	361.4	356.9	359.9	359.9	359.9
20°	3682.0	3258.6	2126.0	1017.7	459.7	353.8	340.2	338.7	341.7	341.7	343.3
22.5°	3756.1	3266.2	1937.0	760.6	379.5	334.2	323.6	323.6	325.1	325.1	323.6
25°	3840.8	3281.3	1740.5	564.0	346.3	320.6	311.5	310.0	311.5	310.0	308.5
27.5°	3946.6	3302.5	1521.2	441.5	331.2	307.0	299.4	299.4	297.9	296.4	294.9
30°	4079.7	3326.7	1274.7	375.0	316.0	294.9	287.3	285.8	284.3	281.3	281.3
32.5°	4282.3	3379.6	1031.3	340.2	299.4	278.2	272.2	272.2	269.2	266.1	264.6
35°	4593.8	3483.9	813.5	319.1	281.3	260.1	252.5	252.5	249.5	248.0	246.5
37.5°	5024.8	3642.7	632.1	299.4	263.1	240.4	232.9	231.4	228.3	225.3	223.8
40°	5597.9	3839.3	497.5	281.3	245.0	220.8	214.7	211.7	205.6	201.1	201.1
42.5°	6317.7	4063.1	403.7	261.6	223.8	202.6	198.1	193.6	183.0	178.4	176.9
45°	7070.7	4264.2	341.7	238.9	202.6	184.5	181.5	173.9	160.3	155.7	155.7
47.5°	7613.5	4311.1	300.9	217.7	183.0	164.8	163.3	149.7	137.6	134.6	133.1
50°	7952.3	4218.8	267.6	196.6	164.8	146.7	142.1	125.5	117.9	114.9	113.4
52.5°	8180.6	4054.0	240.4	178.4	148.2	130.0	119.5	107.4	101.3	98.3	98.3
55°	8363.6	3821.1	213.2	161.8	134.6	116.4	101.3	92.2	86.2	83.2	83.2
57.5°	8415.0	3505.1	186.0	148.2	121.0	102.8	86.2	80.1	72.6	71.1	71.1
60°	8041.5	2935.0	164.8	131.6	108.9	89.2	75.6	68.0	60.5	59.0	57.5
62.5°	7057.1	2271.2	145.2	116.4	95.3	77.1	65.0	55.9	49.9	49.9	49.9
65°	5383.2	1522.7	127.0	101.3	83.2	65.0	55.9	45.4	42.3	42.3	43.9
67.5°	3222.3	828.6	108.9	86.2	71.1	54.4	46.9	39.3	37.8	39.3	39.3
69°	1888.6	486.9	98.3	77.1	62.0	48.4	40.8	34.8	37.8	39.3	39.3
70°	1165.8	328.1	90.7	69.6	55.9	43.9	37.8	33.3	36.3	37.8	37.8
72.5°	325.1	169.4	72.6	54.4	45.4	36.3	30.2	30.2	34.8	36.3	36.3
75°	211.7	125.5	55.9	40.8	34.8	28.7	25.7	28.7	33.3	34.8	34.8
77.5°	175.4	102.8	45.4	33.3	28.7	27.2	24.2	25.7	30.2	31.8	31.8
80°	160.3	72.6	36.3	30.2	25.7	24.2	22.7	21.2	27.2	28.7	28.7
82.5°	152.7	57.5	31.8	27.2	24.2	21.2	19.7	21.2	24.2	25.7	27.2
85°	95.3	37.8	28.7	25.7	21.2	19.7	19.7	19.7	22.7	24.2	24.2
87.5°	34.8	30.2	25.7	21.2	18.1	18.1	18.1	18.1	19.7	22.7	22.7
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)