

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: P951294

Luminaire Tested: **GALN-SB5C-727-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951294
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB5C-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29213 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 249.5
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

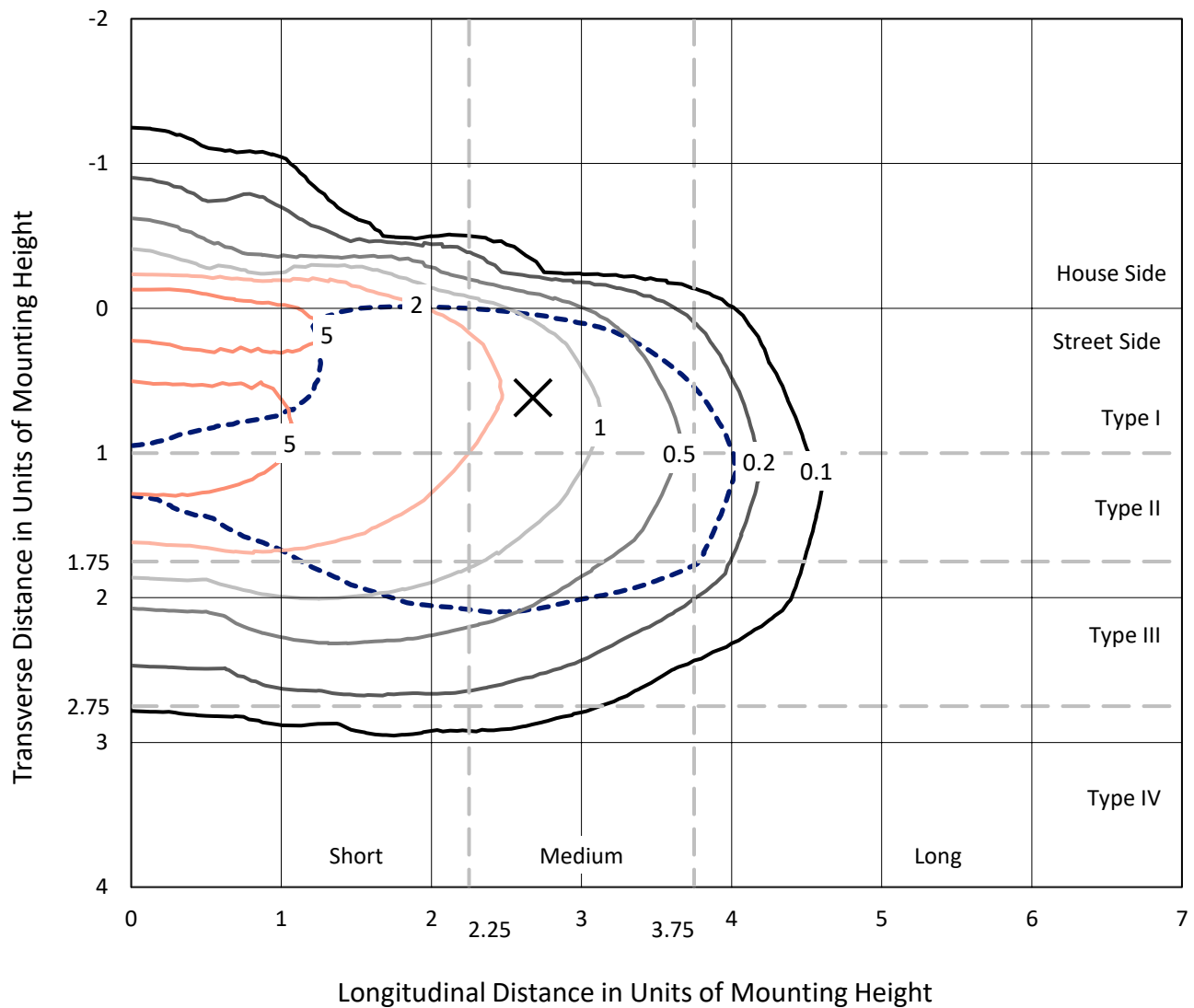


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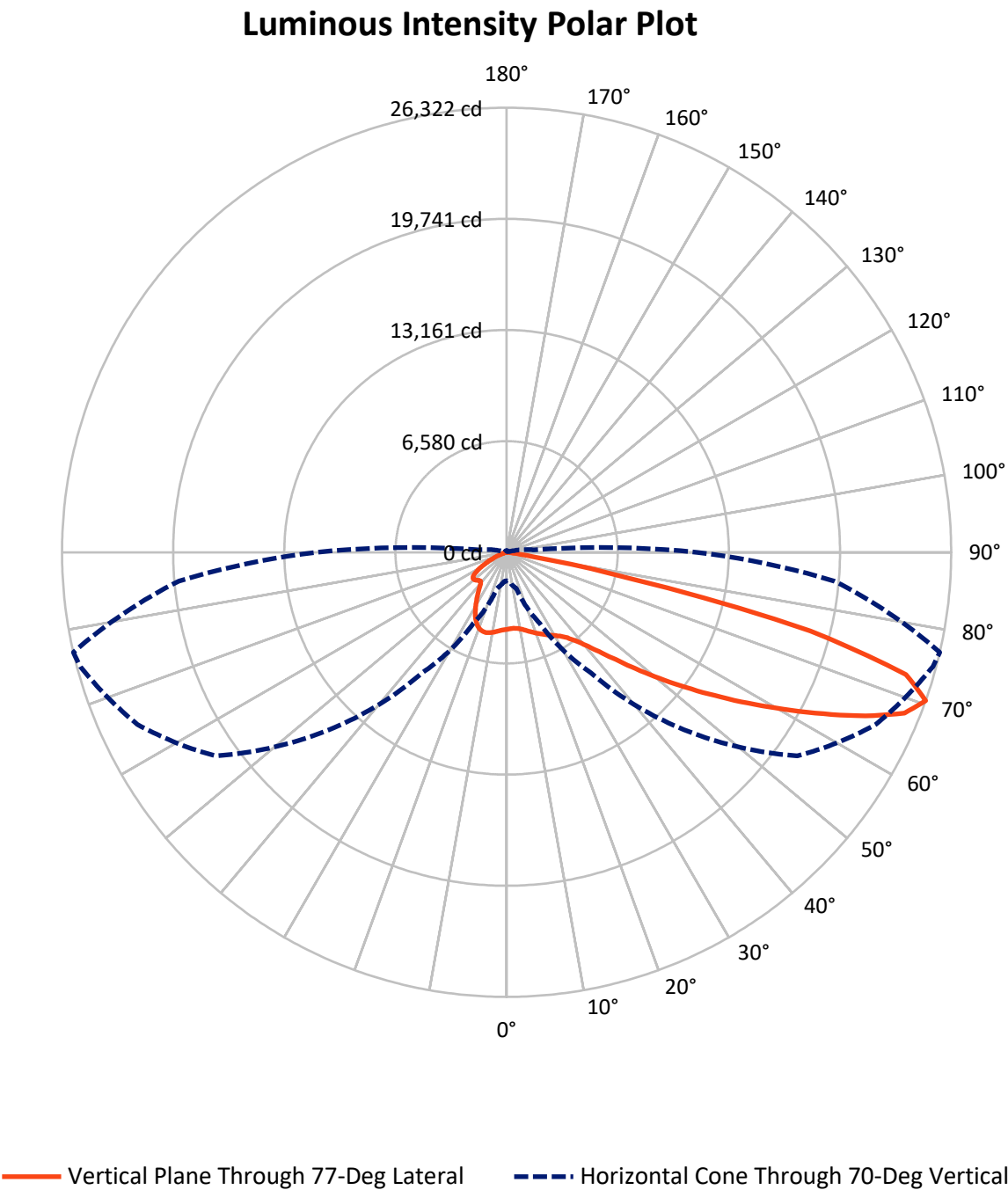
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
Type III - Medium - N/A

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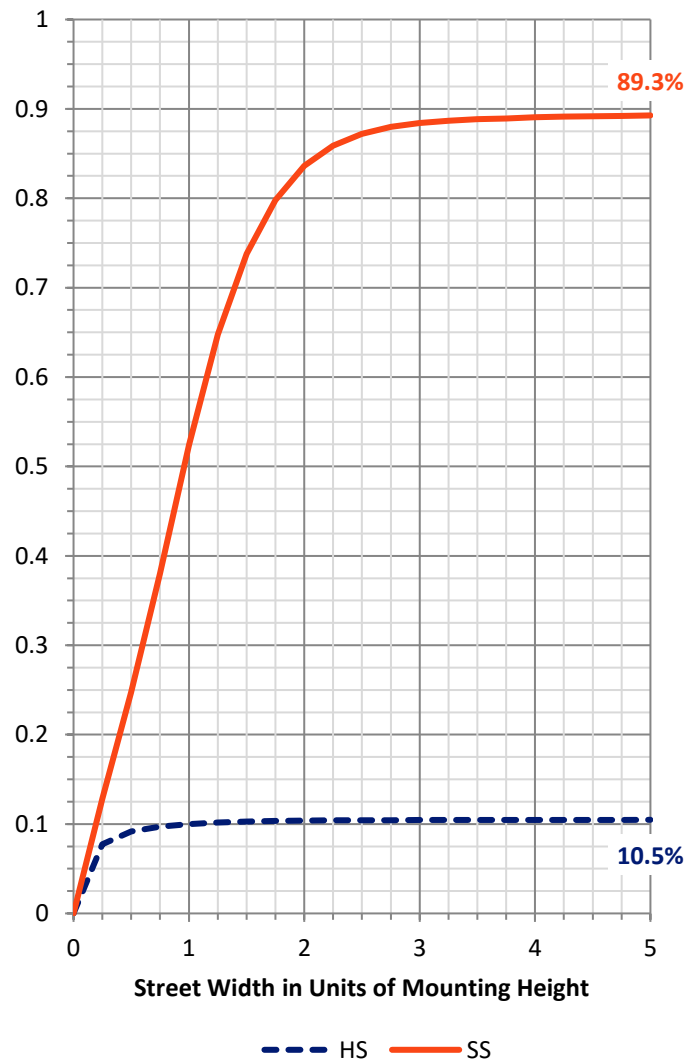
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3079.5	0.0	3079.5
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	26133.5	0.0	26133.5
	% Fixture	89.5	0.0	89.5
Total	Lumens	29213.0	0.0	29213.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	392.7	1.3
10°-20°	932.3	3.2
20°-30°	1442.0	4.9
30°-40°	2616.5	9.0
40°-50°	4939.0	16.9
50°-60°	7136.4	24.4
60°-70°	7596.5	26.0
70°-80°	4025.6	13.8
80°-90°	132.2	0.5
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°	29213.0	100.0
0°-180°	29213.0	100.0

Coefficient of Utilization



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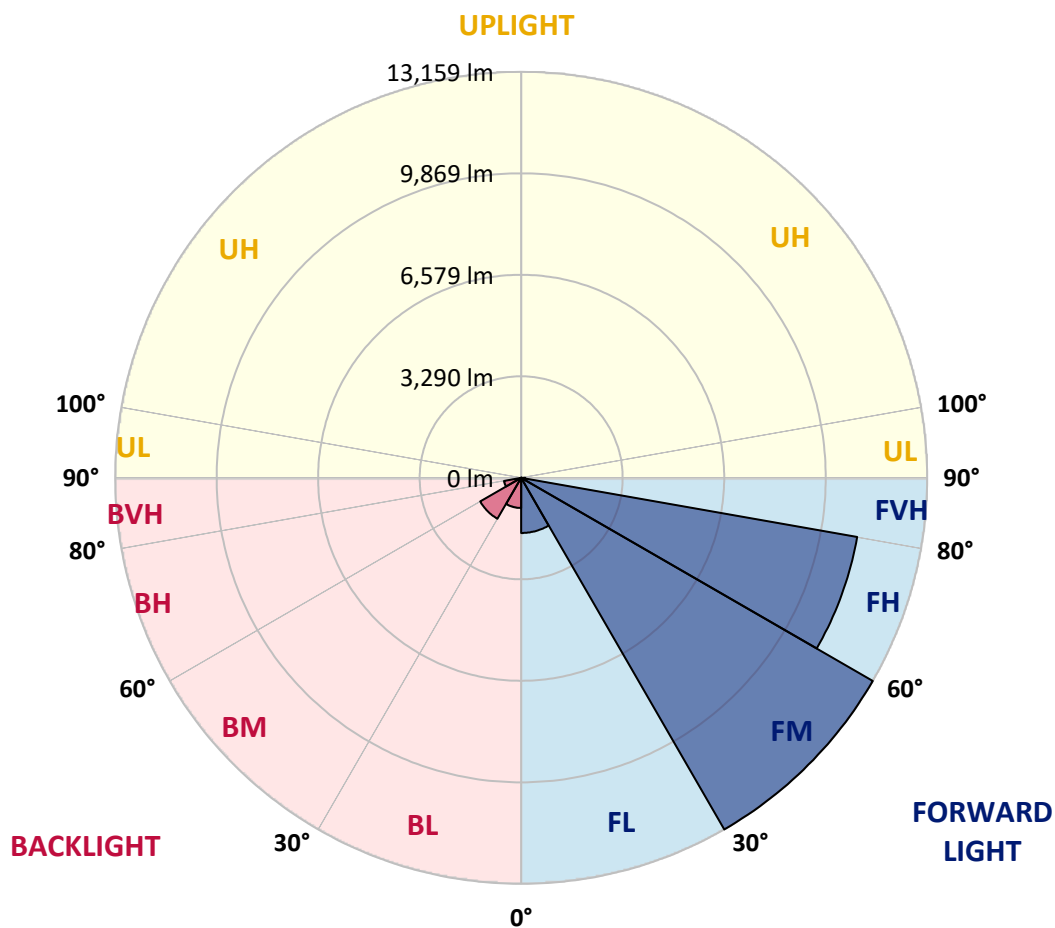
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1788.5	6.1			
FM	(30°-60°)	13158.8	45.0			
FH	(60°-80°)	11057.5	37.9			G4/12000
FVH	(80°-90°)	128.6	0.4			G2/225
BL	(0°-30°)	978.4	3.3	B2/1000		
BM	(30°-60°)	1533.0	5.2	B2/2500		
BH	(60°-80°)	564.5	1.9	B2/1000		G2/1000
BVH	(80°-90°)	3.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	4556.7	4556.7	4556.7	4556.7	4556.7	4556.7	4556.7	4556.7	4556.7	4556.7	4556.7
2.5°	4278.1	4316.9	4311.3	4337.2	4346.4	4383.3	4420.2	4470.0	4525.3	4523.5	4560.4
5°	4036.5	4075.2	4084.4	4119.5	4163.8	4220.9	4296.6	4396.2	4499.5	4516.1	4589.9
7.5°	3750.5	3791.1	3815.1	3885.2	3966.4	4084.4	4208.0	4353.8	4525.3	4549.3	4691.4
10°	3464.6	3501.5	3532.8	3632.4	3761.6	3936.8	4137.9	4348.2	4578.8	4613.9	4815.0
12.5°	3287.5	3322.5	3357.6	3444.3	3604.8	3818.8	4091.8	4374.1	4667.4	4717.2	4982.9
15°	3224.7	3256.1	3283.8	3361.3	3510.7	3754.2	4082.6	4427.6	4779.9	4846.3	5185.8
17.5°	3234.0	3250.6	3269.0	3328.1	3473.8	3724.7	4099.2	4519.8	4912.8	4971.8	5388.7
20°	3287.5	3296.7	3298.5	3339.1	3468.3	3721.0	4132.4	4608.4	5038.2	5117.5	5589.8
22.5°	3355.7	3359.4	3355.7	3383.4	3503.3	3748.7	4176.7	4715.4	5178.4	5252.2	5792.7
25°	3674.9	3604.8	3516.2	3462.7	3562.3	3802.2	4243.1	4859.3	5331.5	5403.5	5990.1
27.5°	4665.5	4464.5	4147.2	3791.1	3684.1	3879.7	4335.3	5005.0	5486.5	5551.1	6202.3
30°	6274.2	6010.4	5471.7	4669.2	4075.2	4042.0	4455.2	5150.7	5650.7	5720.8	6429.2
32.5°	7886.6	7822.0	7200.3	6089.7	4955.2	4403.6	4654.5	5348.1	5868.4	5923.7	6735.4
35°	9517.4	9386.4	8877.3	7779.6	6311.1	5139.7	4986.5	5606.4	6154.3	6217.0	7181.9
37.5°	10766.4	10687.0	10371.6	9467.6	7919.8	6276.1	5554.7	6006.7	6569.4	6639.5	7753.8
40°	11869.6	11832.7	11725.7	11129.8	9718.5	7763.0	6438.4	6626.6	7145.0	7228.0	8454.8
42.5°	12736.6	12823.3	12884.2	12718.2	11572.5	9460.2	7626.5	7497.3	7947.5	8032.3	9347.7
45°	13624.0	13653.5	13898.9	14138.7	13413.7	11234.9	8965.8	8517.5	8945.5	9050.7	10417.7
47.5°	14194.0	14312.1	14743.8	15166.2	14961.5	12994.9	10404.8	9722.2	10102.2	10299.6	11616.8
50°	14236.5	14459.7	15053.7	15789.8	16088.7	14670.0	11969.2	11094.7	11498.8	11716.4	12897.1
52.5°	13529.9	13876.7	14797.3	15874.7	16697.4	16088.7	13587.1	12467.3	12985.7	13269.8	14225.4
55°	10373.4	10827.2	13832.4	15413.5	16721.4	17164.2	15162.6	13897.0	14642.3	14963.3	15660.7
57.5°	9037.8	9266.5	10875.2	14612.8	16276.8	17597.7	16586.8	15258.5	16444.7	16843.2	17016.6
60°	7519.5	7820.2	9120.8	13303.0	15673.6	17640.1	17844.9	17014.8	18398.4	18846.7	18260.0
62.5°	5110.1	5436.7	6729.9	11052.3	14848.9	17619.9	18876.2	18822.7	20569.7	21051.2	19313.4
65°	3165.7	3370.5	4222.8	9024.8	13695.9	17642.0	19955.4	21018.0	22861.0	23349.9	20128.8
67.5°	2501.6	2595.7	3040.3	6929.1	11709.1	17143.9	21032.8	23082.4	25017.6	25405.0	20377.9
70°	1680.6	1737.8	2211.9	4645.3	8711.2	14845.3	21012.5	24119.2	26128.2	26321.9	19470.2
72.5°	885.5	929.8	1293.2	2151.1	5261.4	10552.4	17712.1	22879.4	25023.1	24731.6	16642.1
75°	442.8	516.5	870.8	1092.1	2247.0	5885.0	10998.8	18038.6	19695.3	18566.2	10677.8
77.5°	335.8	405.9	719.5	719.5	782.2	1981.3	4658.2	9838.4	9074.7	7556.4	3134.3
80°	214.0	276.7	629.1	544.2	326.5	503.6	1213.9	2756.2	1927.8	1466.6	570.0
82.5°	125.4	180.8	523.9	359.7	182.6	186.3	343.1	586.7	499.9	389.3	175.3
85°	49.8	118.1	359.7	142.1	71.9	46.1	103.3	125.4	103.3	77.5	44.3
87.5°	0.0	27.7	62.7	0.0	5.5	3.7	7.4	9.2	9.2	7.4	14.8
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°	4556.7	4556.7	4556.7	4556.7	4556.7	4556.7	4556.7	4556.7	4556.7	4556.7	4556.7
2.5°	4577.0	4580.7	4591.8	4593.6	4567.8	4534.6	4521.6	4516.1	4494.0	4492.1	4495.8
5°	4632.3	4648.9	4632.3	4584.4	4470.0	4309.5	4187.7	4088.1	3997.7	3970.0	3953.4
7.5°	4743.0	4759.6	4709.8	4521.6	4233.9	3914.7	3626.9	3424.0	3241.3	3173.1	3145.4
10°	4901.7	4923.8	4767.0	4387.0	3877.8	3364.9	2877.9	2534.8	2267.3	2158.4	2112.3
12.5°	5100.9	5110.1	4798.4	4182.2	3414.8	2682.4	1992.4	1625.3	1387.3	1298.8	1271.1
15°	5320.5	5307.5	4802.1	3903.6	2783.8	1896.5	1300.6	1068.1	972.2	942.7	942.7
17.5°	5551.1	5497.6	4728.3	3501.5	2092.0	1296.9	964.8	909.5	892.9	885.5	883.7
20°	5778.0	5658.1	4593.6	2975.7	1501.7	968.5	876.3	859.7	850.5	846.8	843.1
22.5°	5984.6	5779.8	4363.0	2365.1	1090.3	856.0	828.3	813.6	797.0	789.6	787.7
25°	6185.7	5849.9	4038.3	1795.0	872.6	800.7	778.5	750.8	728.7	719.5	715.8
27.5°	6381.2	5894.2	3632.4	1328.3	778.5	749.0	708.4	669.7	653.1	649.4	645.7
30°	6589.7	5909.0	3171.2	990.7	721.3	684.4	625.4	581.1	571.9	573.7	573.7
32.5°	6844.3	5931.1	2706.3	811.7	673.4	606.9	536.8	490.7	483.3	490.7	488.9
35°	7148.7	5975.4	2258.1	747.2	630.9	527.6	452.0	413.2	405.9	411.4	409.5
37.5°	7561.9	6047.3	1839.3	734.2	595.9	461.2	380.0	348.7	348.7	350.5	348.7
40°	8111.7	6239.2	1464.8	725.0	577.4	411.4	321.0	308.1	313.6	317.3	317.3
42.5°	8781.3	6646.9	1212.0	713.9	557.1	389.3	291.5	285.9	295.2	298.9	298.9
45°	9532.2	7163.4	1123.5	695.5	538.7	404.0	278.6	271.2	282.3	284.1	285.9
47.5°	10308.8	7668.9	1112.4	675.2	520.2	426.2	274.9	258.3	271.2	273.0	274.9
50°	11094.7	7999.1	1123.5	643.8	490.7	426.2	276.7	245.4	256.4	262.0	263.8
52.5°	11886.2	8150.4	1116.1	575.6	439.1	400.3	276.7	234.3	245.4	249.1	249.1
55°	12653.6	8120.9	1003.6	474.1	372.7	354.2	269.3	225.1	232.4	234.3	234.3
57.5°	13260.6	7709.5	795.1	369.0	302.6	295.2	245.4	214.0	219.5	217.7	217.7
60°	13577.9	6805.5	568.2	284.1	238.0	232.4	215.8	199.2	202.9	193.7	191.9
62.5°	13581.5	5610.1	380.0	225.1	190.0	184.5	184.5	178.9	175.3	156.8	151.3
65°	13291.9	4283.7	252.7	178.9	153.1	143.9	155.0	153.1	140.2	114.4	110.7
67.5°	12635.2	2807.8	191.9	140.2	118.1	112.5	123.6	129.1	119.9	95.9	94.1
70°	11284.8	1634.5	158.7	108.8	88.6	83.0	99.6	110.7	99.6	77.5	73.8
72.5°	9373.5	881.8	129.1	81.2	60.9	55.3	79.3	90.4	79.3	57.2	55.3
75°	6082.4	472.3	99.6	53.5	31.4	35.1	59.0	66.4	55.3	36.9	33.2
77.5°	2042.2	208.5	62.7	25.8	14.8	14.8	35.1	40.6	25.8	12.9	11.1
80°	455.7	86.7	25.8	11.1	5.5	5.5	7.4	7.4	3.7	0.0	0.0
82.5°	149.4	35.1	11.1	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	57.2	12.9	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	22.1	1.8	0.0	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)