

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: P955221

Luminaire Tested: **GALN-SB8B-727-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955221
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-SB8B-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2700K, 450mA 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: 35161 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 292.8
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

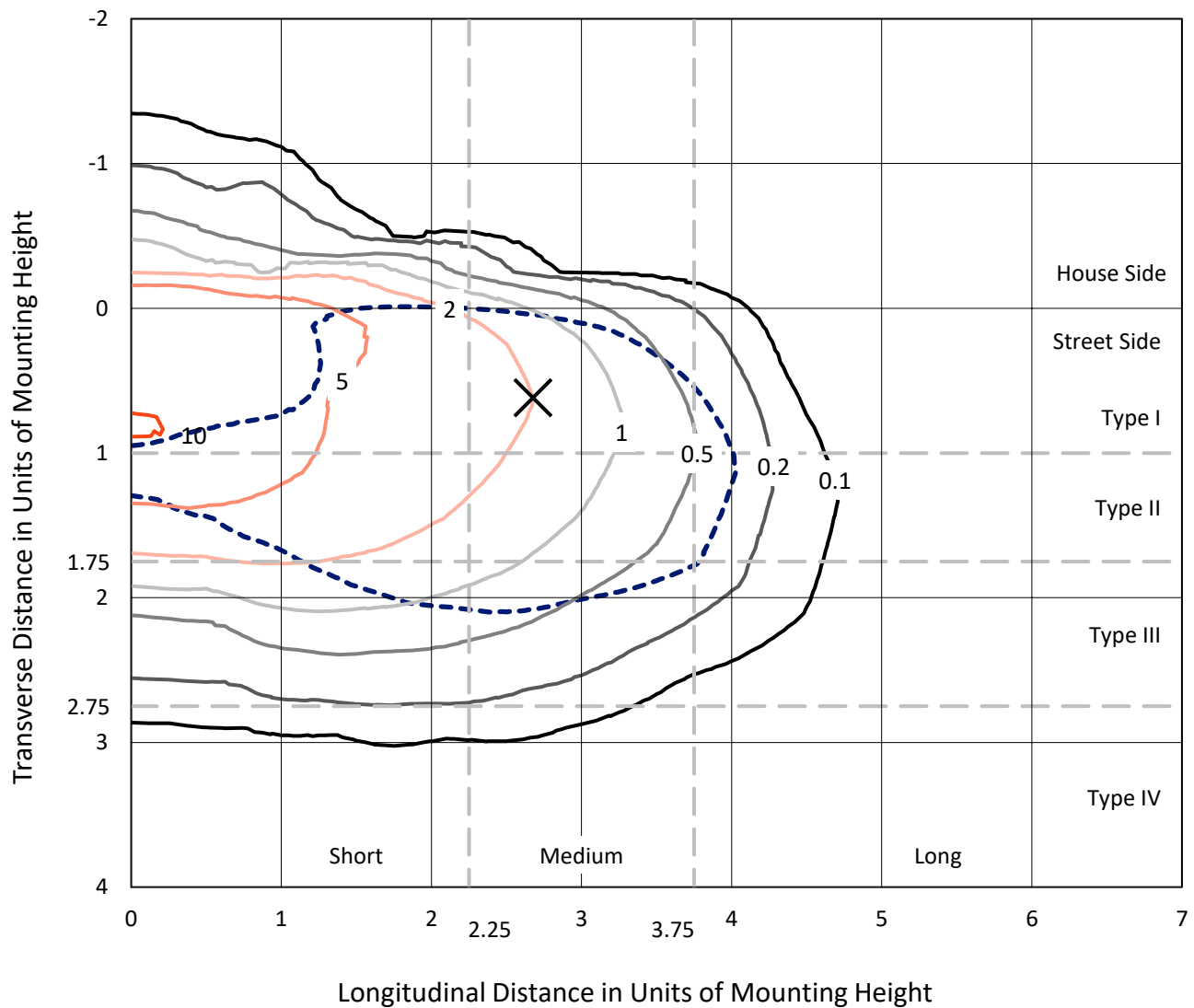


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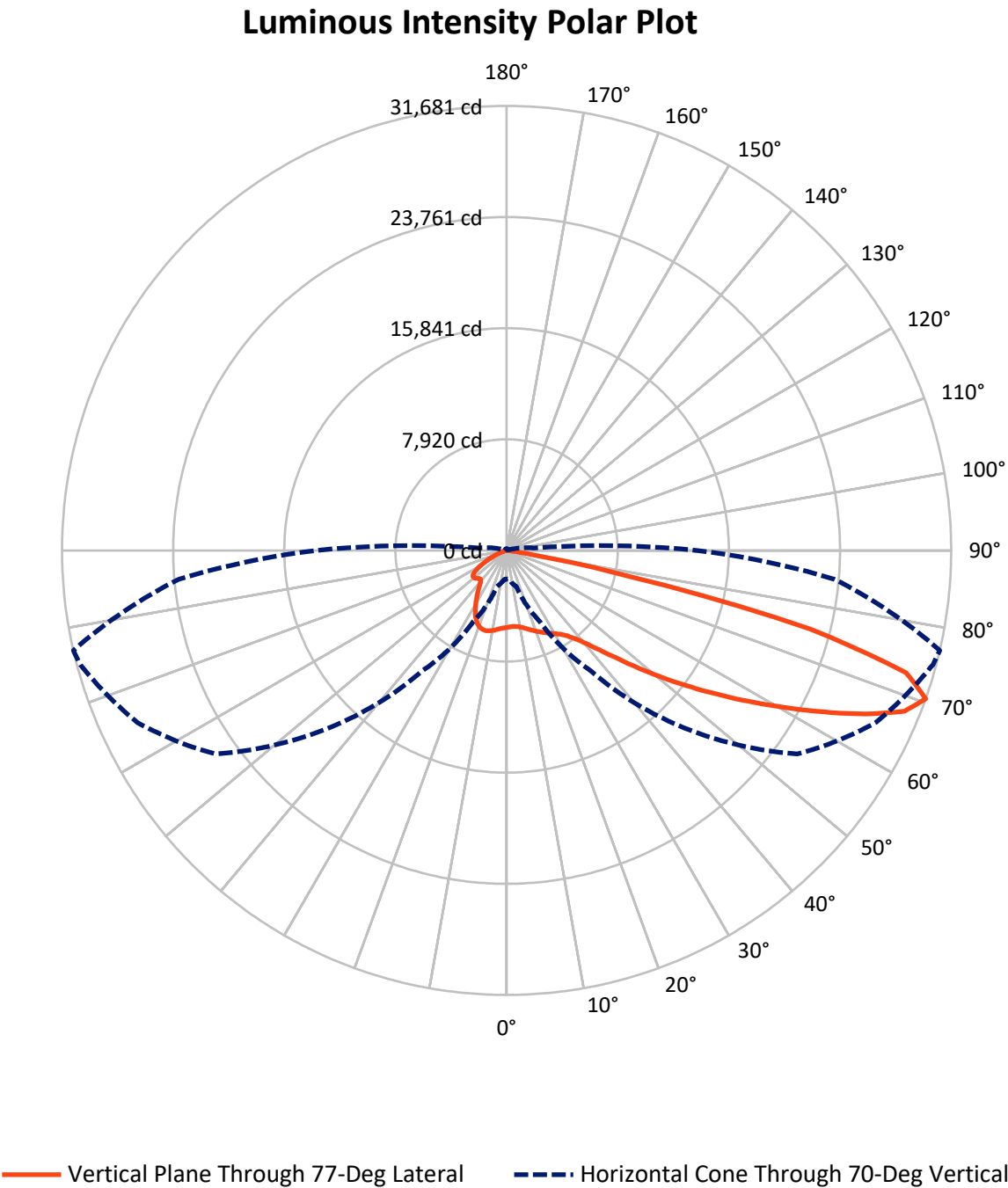
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
Type III - Medium - N/A

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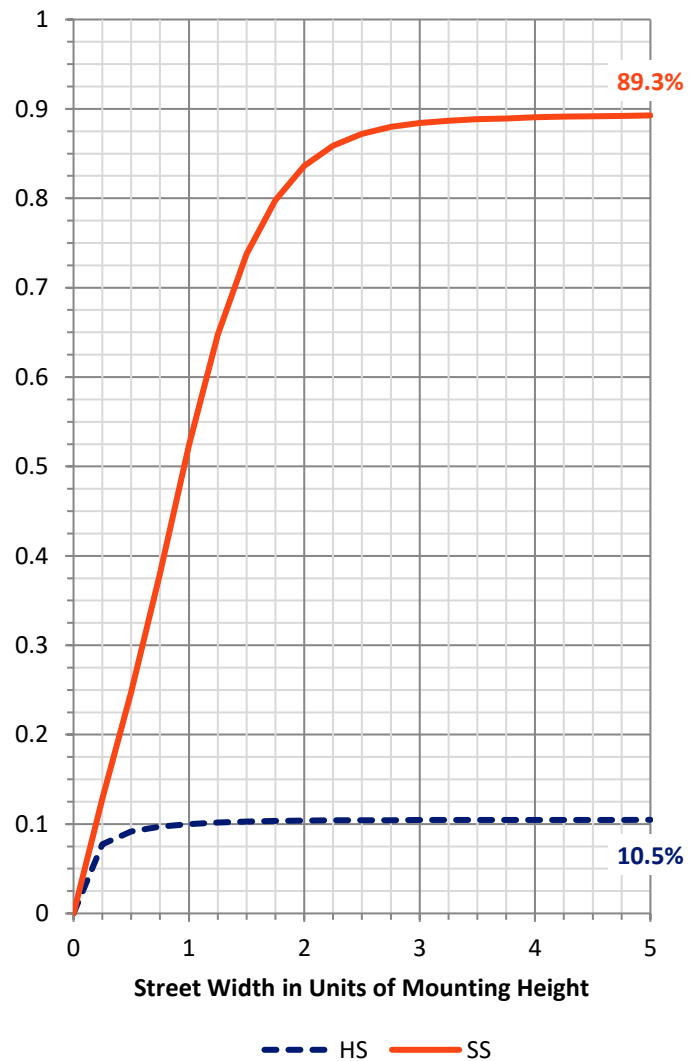
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3706.5	0.0	3706.5
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	31454.5	0.0	31454.5
	% Fixture	89.5	0.0	89.5
Total	Lumens	35161.0	0.0	35161.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	472.7	1.3
10°-20°	1122.1	3.2
20°-30°	1735.5	4.9
30°-40°	3149.2	9.0
40°-50°	5944.6	16.9
50°-60°	8589.4	24.4
60°-70°	9143.2	26.0
70°-80°	4845.2	13.8
80°-90°	159.1	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°	35161.0	100.0
0°-180°	35161.0	100.0

Coefficient of Utilization



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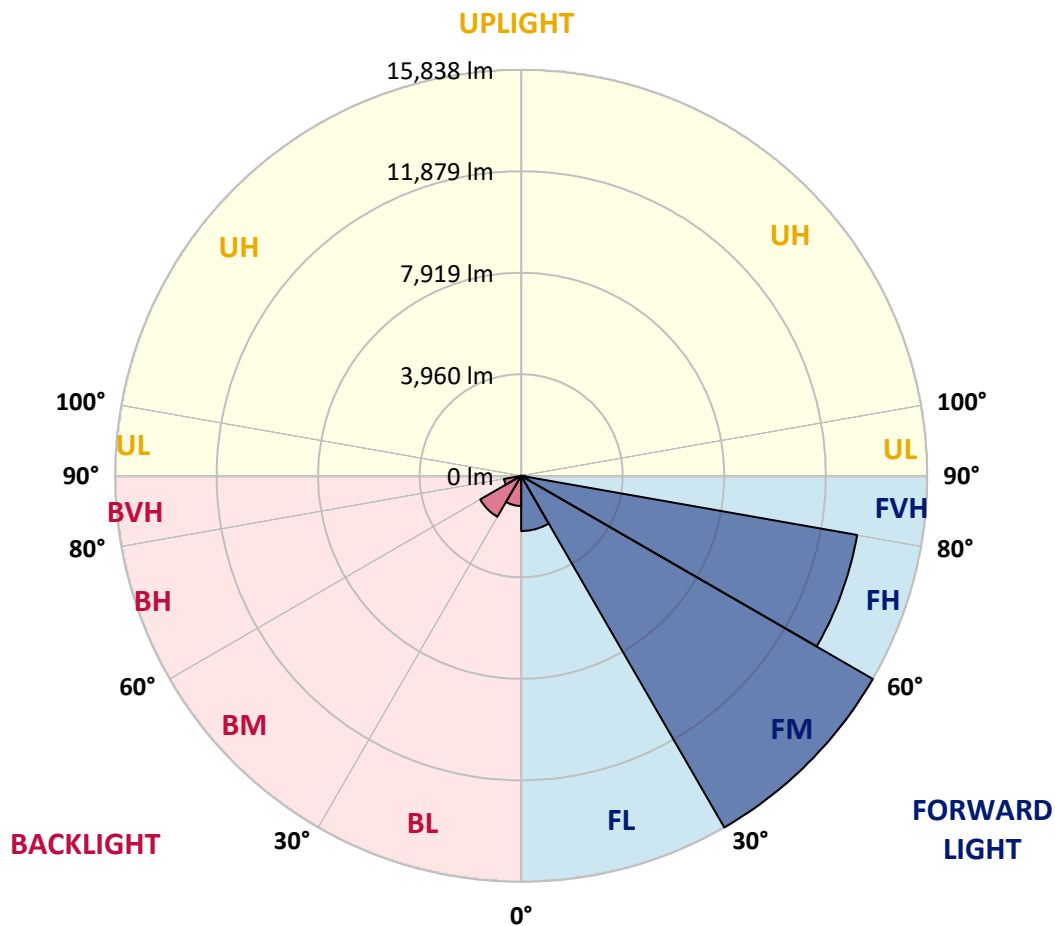
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2152.7	6.1			
FM	(30°-60°)	15838.1	45.0			
FH	(60°-80°)	13308.9	37.9			G5
FVH	(80°-90°)	154.8	0.4			G2/225
BL	(0°-30°)	1177.6	3.3	B3/2500		
BM	(30°-60°)	1845.1	5.2	B2/2500		
BH	(60°-80°)	679.5	1.9	B2/1000		G2/1000
BVH	(80°-90°)	4.3	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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	5484.5	5484.5	5484.5	5484.5	5484.5	5484.5	5484.5	5484.5	5484.5	5484.5	5484.5
2.5°	5149.2	5195.8	5189.2	5220.2	5231.4	5275.8	5320.2	5380.1	5446.7	5444.5	5488.9
5°	4858.3	4904.9	4916.0	4958.2	5011.5	5080.4	5171.4	5291.3	5415.6	5435.6	5524.4
7.5°	4514.1	4563.0	4591.9	4676.2	4773.9	4916.0	5064.8	5240.2	5446.7	5475.6	5646.6
10°	4170.0	4214.4	4252.1	4372.0	4527.5	4738.4	4980.4	5233.6	5511.1	5553.3	5795.3
12.5°	3956.8	3999.0	4041.2	4145.6	4338.7	4596.3	4924.9	5264.7	5617.7	5677.7	5997.4
15°	3881.3	3919.1	3952.4	4045.6	4225.5	4518.6	4913.8	5329.1	5753.2	5833.1	6241.7
17.5°	3892.4	3912.4	3934.6	4005.7	4181.1	4483.1	4933.8	5440.1	5913.0	5984.1	6485.9
20°	3956.8	3967.9	3970.1	4019.0	4174.4	4478.6	4973.8	5546.7	6064.0	6159.5	6727.9
22.5°	4039.0	4043.4	4039.0	4072.3	4216.6	4511.9	5027.1	5675.4	6232.8	6321.6	6972.2
25°	4423.1	4338.7	4232.2	4167.8	4287.7	4576.3	5107.0	5848.6	6417.1	6503.7	7209.8
27.5°	5615.5	5373.5	4991.5	4563.0	4434.2	4669.6	5218.0	6024.0	6603.6	6681.3	7465.1
30°	7551.7	7234.2	6585.8	5619.9	4904.9	4865.0	5362.4	6199.5	6801.2	6885.6	7738.2
32.5°	9492.4	9414.7	8666.4	7329.7	5964.1	5300.2	5602.2	6437.0	7063.2	7129.8	8106.8
35°	11455.2	11297.6	10684.7	9363.6	7596.1	6186.1	6001.8	6747.9	7407.4	7482.9	8644.2
37.5°	12958.5	12863.0	12483.3	11395.3	9532.3	7553.9	6685.7	7229.7	7907.0	7991.4	9332.5
40°	14286.3	14241.9	14113.1	13395.9	11697.3	9343.6	7749.3	7975.8	8599.8	8699.7	10176.3
42.5°	15329.9	15434.3	15507.5	15307.7	13928.8	11386.4	9179.3	9023.9	9565.6	9667.8	11251.0
45°	16397.9	16433.5	16728.8	17017.4	16144.8	13522.5	10791.3	10251.8	10766.9	10893.5	12538.8
47.5°	17084.0	17226.2	17745.7	18254.2	18007.7	15640.8	12523.3	11701.7	12159.1	12396.7	13982.1
50°	17135.1	17403.8	18118.8	19004.7	19364.4	17656.9	14406.2	13353.7	13840.0	14102.0	15523.1
52.5°	16284.7	16702.1	17810.1	19106.9	20097.2	19364.4	16353.5	15005.7	15629.7	15971.6	17121.8
55°	12485.5	13031.7	16648.8	18551.8	20126.0	20659.0	18249.8	16726.6	17623.6	18010.0	18849.3
57.5°	10877.9	11153.3	13089.5	17588.1	19590.9	21180.8	19964.0	18365.2	19793.0	20272.6	20481.3
60°	9050.5	9412.4	10977.8	16011.6	18864.8	21231.8	21478.3	20479.1	22144.4	22684.0	21977.9
62.5°	6150.6	6543.6	8100.2	13302.6	17872.3	21207.4	22719.5	22655.1	24757.9	25337.4	23245.8
65°	3810.3	4056.7	5082.6	10862.4	16484.5	21234.0	24018.5	25297.4	27515.7	28104.1	24227.2
67.5°	3010.9	3124.2	3659.3	8340.0	14093.1	20634.5	25315.2	27782.1	30111.4	30577.6	24527.0
70°	2022.8	2091.7	2662.3	5591.1	10484.9	17867.9	25290.8	29030.0	31448.1	31681.2	23434.5
72.5°	1065.8	1119.1	1556.5	2589.0	6332.7	12700.9	21318.4	27537.9	30118.0	29767.2	20030.6
75°	532.9	621.7	1048.0	1314.5	2704.5	7083.2	13238.2	21711.4	23705.4	22346.5	12851.9
77.5°	404.1	488.5	866.0	866.0	941.5	2384.8	5606.6	11841.6	10922.3	9094.9	3772.5
80°	257.6	333.1	757.2	655.0	393.0	606.2	1461.0	3317.3	2320.4	1765.2	686.1
82.5°	151.0	217.6	630.6	433.0	219.8	224.3	413.0	706.1	601.7	468.5	210.9
85°	60.0	142.1	433.0	171.0	86.6	55.5	124.3	151.0	124.3	93.3	53.3
87.5°	0.0	33.3	75.5	0.0	6.7	4.4	8.9	11.1	11.1	8.9	17.8
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°	5484.5	5484.5	5484.5	5484.5	5484.5	5484.5	5484.5	5484.5	5484.5	5484.5	5484.5
2.5°	5508.9	5513.3	5526.7	5528.9	5497.8	5457.8	5442.3	5435.6	5409.0	5406.8	5411.2
5°	5575.5	5595.5	5575.5	5517.8	5380.1	5186.9	5040.4	4920.5	4811.7	4778.4	4758.4
7.5°	5708.7	5728.7	5668.8	5442.3	5095.9	4711.8	4365.4	4121.1	3901.3	3819.2	3785.8
10°	5899.7	5926.3	5737.6	5280.2	4667.4	4050.1	3463.9	3050.9	2728.9	2597.9	2542.4
12.5°	6139.5	6150.6	5775.4	5033.7	4110.0	3228.5	2398.1	1956.2	1669.8	1563.2	1529.9
15°	6403.7	6388.2	5779.8	4698.4	3350.6	2282.6	1565.4	1285.6	1170.2	1134.6	1134.6
17.5°	6681.3	6616.9	5691.0	4214.4	2518.0	1561.0	1161.3	1094.7	1074.7	1065.8	1063.6
20°	6954.4	6810.1	5528.9	3581.6	1807.4	1165.7	1054.7	1034.7	1023.6	1019.2	1014.7
22.5°	7203.1	6956.6	5251.3	2846.6	1312.3	1030.3	997.0	979.2	959.2	950.3	948.1
25°	7445.1	7041.0	4860.5	2160.5	1050.3	963.7	937.0	903.7	877.1	866.0	861.5
27.5°	7680.5	7094.3	4372.0	1598.7	937.0	901.5	852.6	806.0	786.0	781.6	777.2
30°	7931.4	7112.1	3816.9	1192.4	868.2	823.8	752.7	699.4	688.3	690.6	690.6
32.5°	8237.8	7138.7	3257.4	977.0	810.5	730.5	646.1	590.6	581.8	590.6	588.4
35°	8604.2	7192.0	2717.8	899.3	759.4	635.0	544.0	497.4	488.5	495.2	492.9
37.5°	9101.6	7278.6	2213.8	883.7	717.2	555.1	457.4	419.7	419.7	421.9	419.7
40°	9763.3	7509.5	1763.0	872.6	695.0	495.2	386.4	370.8	377.5	381.9	381.9
42.5°	10569.3	8000.2	1458.8	859.3	670.6	468.5	350.8	344.2	355.3	359.7	359.7
45°	11473.0	8622.0	1352.2	837.1	648.4	486.3	335.3	326.4	339.7	341.9	344.2
47.5°	12407.8	9230.4	1338.9	812.7	626.2	512.9	330.8	310.9	326.4	328.6	330.8
50°	13353.7	9627.8	1352.2	774.9	590.6	512.9	333.1	295.3	308.6	315.3	317.5
52.5°	14306.3	9809.9	1343.4	692.8	528.5	481.8	333.1	282.0	295.3	299.8	299.8
55°	15230.0	9774.4	1207.9	570.7	448.5	426.3	324.2	270.9	279.8	282.0	282.0
57.5°	15960.5	9279.2	957.0	444.1	364.2	355.3	295.3	257.6	264.2	262.0	262.0
60°	16342.4	8191.2	683.9	341.9	286.4	279.8	259.8	239.8	244.2	233.1	230.9
62.5°	16346.9	6752.4	457.4	270.9	228.7	222.0	222.0	215.4	210.9	188.7	182.1
65°	15998.3	5155.9	304.2	215.4	184.3	173.2	186.5	184.3	168.8	137.7	133.2
67.5°	15207.8	3379.5	230.9	168.8	142.1	135.4	148.8	155.4	144.3	115.5	113.2
70°	13582.4	1967.3	191.0	131.0	106.6	99.9	119.9	133.2	119.9	93.3	88.8
72.5°	11282.0	1061.4	155.4	97.7	73.3	66.6	95.5	108.8	95.5	68.8	66.6
75°	7320.8	568.4	119.9	64.4	37.7	42.2	71.1	79.9	66.6	44.4	40.0
77.5°	2458.0	250.9	75.5	31.1	17.8	17.8	42.2	48.8	31.1	15.5	13.3
80°	548.4	104.4	31.1	13.3	6.7	6.7	8.9	8.9	4.4	0.0	0.0
82.5°	179.9	42.2	13.3	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	68.8	15.5	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	26.6	2.2	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)