

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: P951297

Luminaire Tested: **GALN-SB5C-727-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951297
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
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-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35021 lumens
Efficiency: N/A
Efficacy: 140.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

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

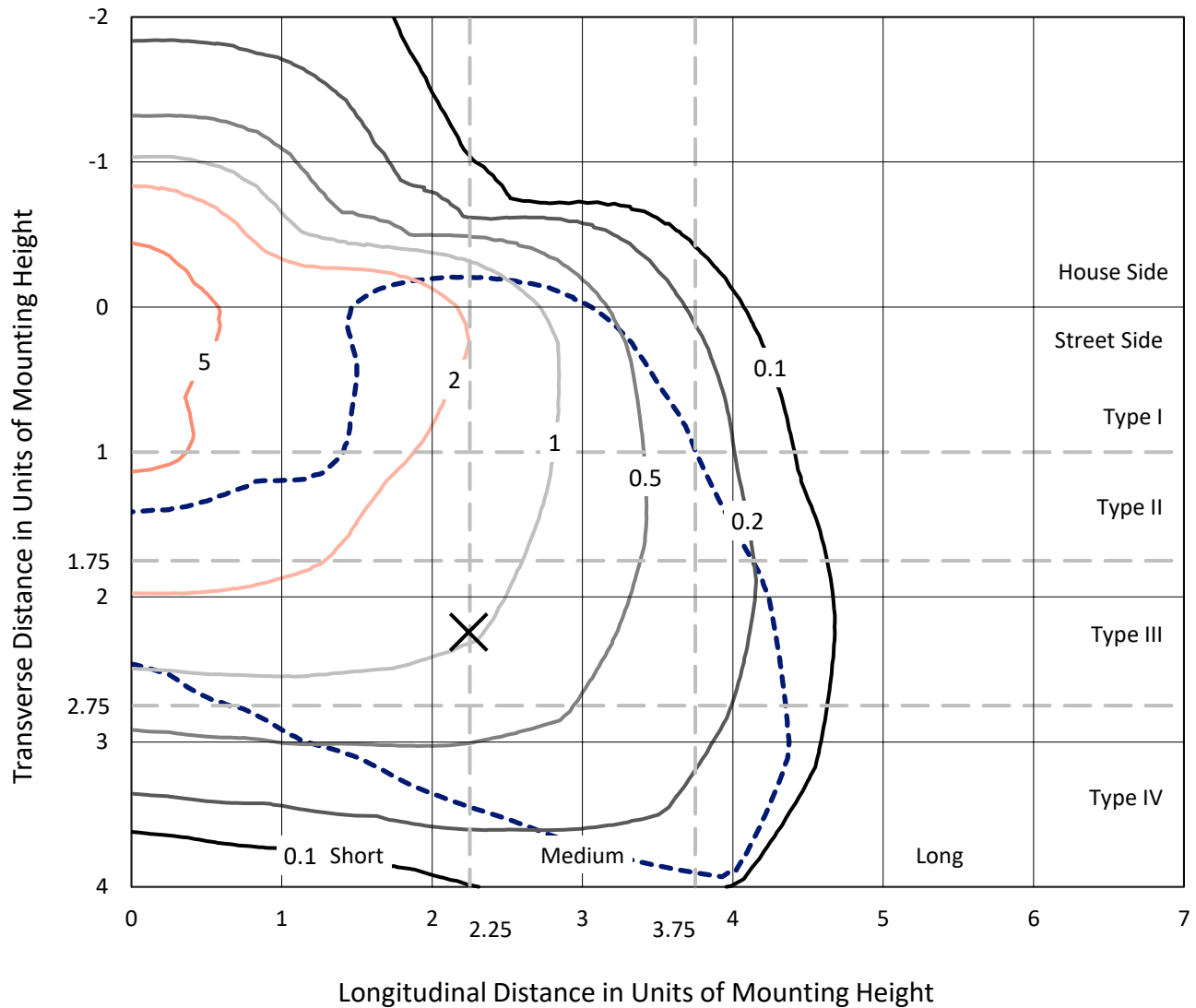


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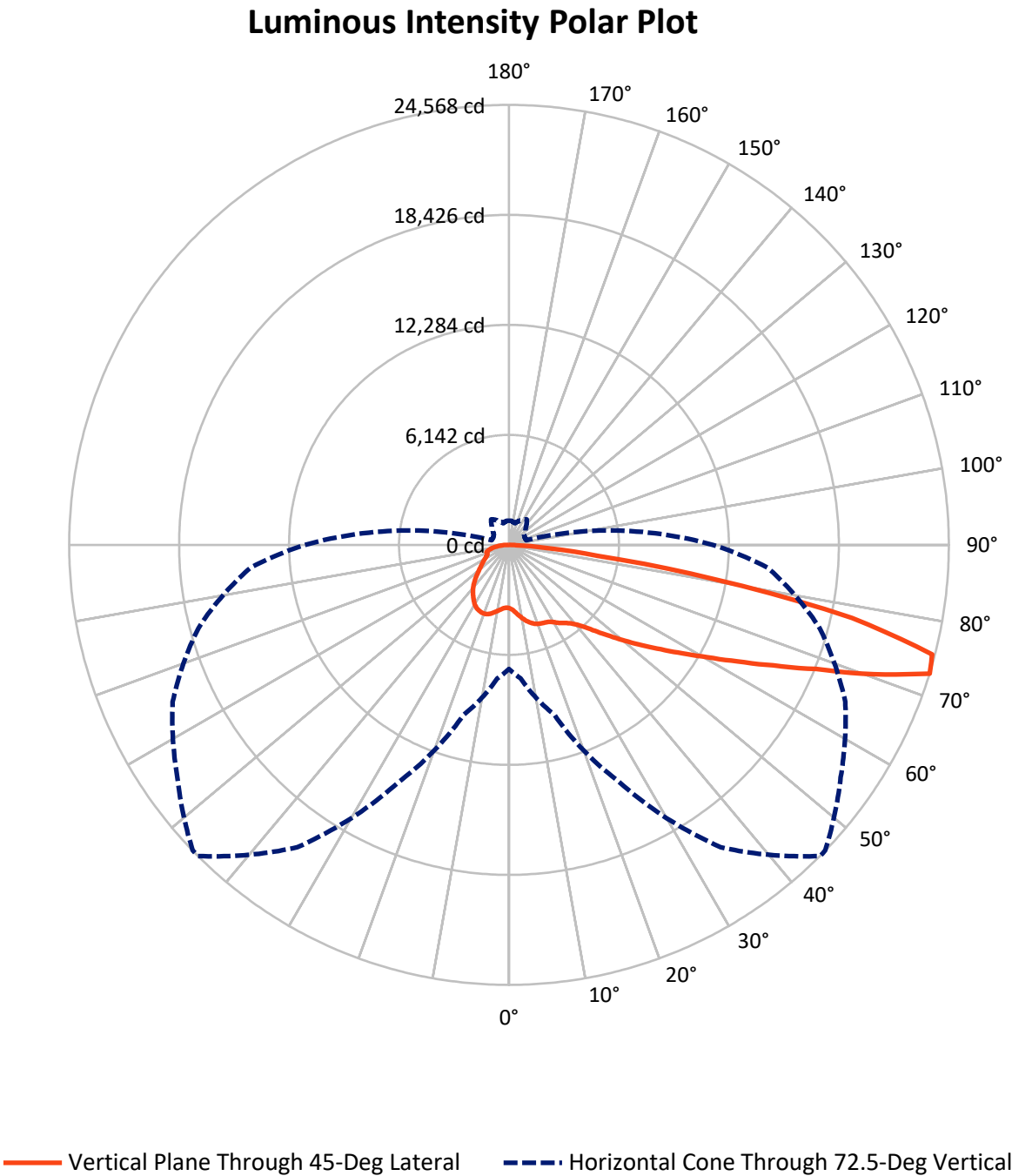
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
Type IV - Short - N/A

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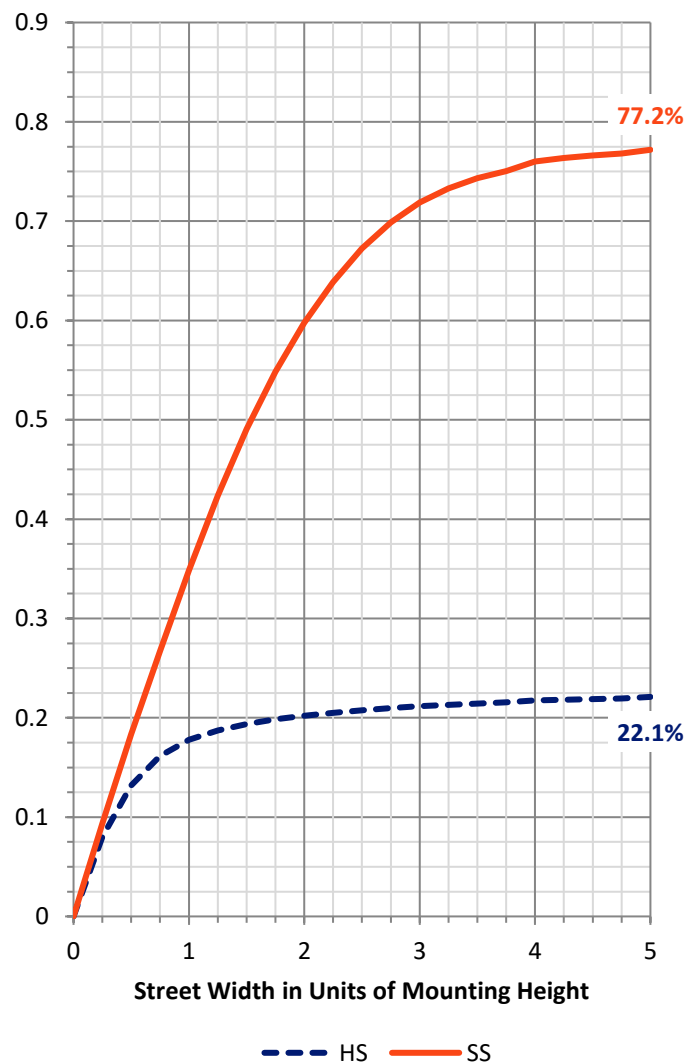
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7917.1	0.0	7917.1
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	27104.0	0.0	27104.0
	% Fixture	77.4	0.0	77.4
Total	Lumens	35021.0	0.0	35021.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.6	1.0
10°-20°	1198.9	3.4
20°-30°	2085.6	6.0
30°-40°	2989.7	8.5
40°-50°	4209.7	12.0
50°-60°	6448.1	18.4
60°-70°	9341.0	26.7
70°-80°	7459.4	21.3
80°-90°	929.0	2.7
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°	35021.0	100.0
0°-180°	35021.0	100.0

Coefficient of Utilization



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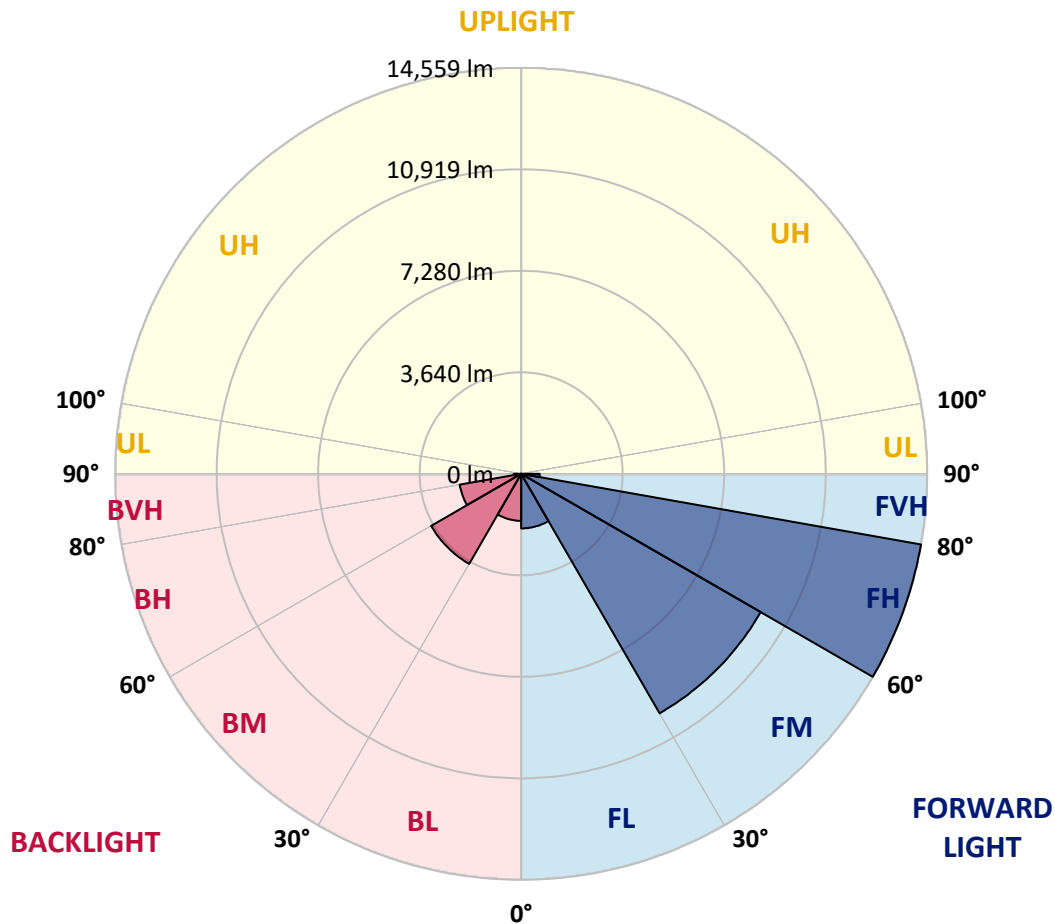
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1958.4	5.6			
FM	(30°-60°)	9919.8	28.3			
FH	(60°-80°)	14559.3	41.6			G5
FVH	(80°-90°)	666.5	1.9			G4/750
BL	(0°-30°)	1685.6	4.8	B3/2500		
BM	(30°-60°)	3727.8	10.6	B3/5000		
BH	(60°-80°)	2241.1	6.4	B3/2500		G3/2500
BVH	(80°-90°)	262.5	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3532.9	3532.9	3532.9	3532.9	3532.9	3532.9	3532.9	3532.9	3532.9	3532.9	3532.9
2.5°	3671.3	3695.3	3673.1	3652.9	3643.6	3619.6	3617.8	3603.0	3593.8	3568.0	3560.6
5°	3927.7	3959.1	3922.2	3881.6	3844.7	3785.7	3778.3	3735.9	3687.9	3632.6	3601.2
7.5°	4217.4	4245.1	4202.6	4141.7	4077.2	3979.4	3977.6	3900.1	3824.4	3730.3	3676.8
10°	4470.1	4507.0	4449.8	4366.8	4285.6	4175.0	4162.0	4073.5	3977.6	3855.8	3774.6
12.5°	4693.4	4719.2	4663.8	4562.4	4468.3	4357.6	4341.0	4243.2	4136.2	3997.8	3894.5
15°	4870.5	4903.7	4829.9	4721.0	4621.4	4512.6	4497.8	4409.3	4302.3	4156.5	4023.7
17.5°	4986.7	5014.4	4938.7	4817.0	4721.0	4630.6	4619.6	4545.8	4451.7	4304.1	4162.0
20°	5031.0	5060.5	4981.2	4857.6	4769.0	4698.9	4693.4	4639.9	4575.3	4440.6	4296.7
22.5°	5075.3	5102.9	4999.6	4870.5	4793.0	4748.7	4746.9	4711.8	4686.0	4575.3	4435.1
25°	5254.2	5261.6	5123.2	4936.9	4826.2	4787.5	4785.6	4783.8	4794.8	4708.1	4584.5
27.5°	5409.2	5407.3	5289.3	5114.0	4942.4	4861.2	4859.4	4877.9	4912.9	4841.0	4739.5
30°	5636.1	5615.8	5475.6	5292.9	5136.1	5010.7	4999.6	4983.0	5010.7	4953.5	4894.5
32.5°	6117.6	6053.0	5826.1	5501.4	5296.6	5200.7	5185.9	5082.6	5093.7	5058.6	5029.1
35°	6807.6	6722.7	6420.2	5896.2	5495.9	5359.4	5352.0	5221.0	5198.9	5167.5	5178.6
37.5°	7628.6	7523.4	7171.0	6468.1	5839.0	5543.9	5532.8	5414.7	5324.3	5291.1	5353.8
40°	8453.2	8320.4	8028.9	7165.5	6344.5	5851.9	5816.9	5637.9	5534.6	5479.3	5612.1
42.5°	9253.9	9143.2	8894.1	7947.7	6968.1	6302.1	6224.6	5918.4	5840.9	5789.2	6029.1
45°	9962.3	9862.7	9680.1	8783.5	7698.7	6914.6	6839.0	6339.0	6315.0	6315.0	6661.8
47.5°	10537.9	10515.8	10322.1	9635.8	8560.2	7612.0	7481.0	6923.8	6988.4	7088.0	7560.3
50°	11176.3	11115.4	10908.8	10475.2	9573.1	8410.8	8303.8	7641.5	7883.2	8156.2	8859.1
52.5°	11762.9	11796.1	11565.5	11349.7	10716.9	9301.9	9113.7	8488.3	9010.4	9462.4	10381.1
55°	12366.2	12368.0	12303.5	12274.0	11916.1	10287.0	10080.4	9506.6	10336.8	10897.7	12155.9
57.5°	12932.6	12936.3	13032.2	13292.3	13307.1	11423.5	11189.2	10757.5	11810.9	12382.8	13986.0
60°	13438.1	13463.9	13725.9	14334.7	14530.2	12726.0	12504.6	12235.2	13334.8	13910.4	15910.2
62.5°	13607.8	13701.9	14284.9	15150.1	15738.6	14323.6	14105.9	13945.4	14936.1	15471.1	17518.9
65°	13320.0	13535.9	14663.1	15823.5	16982.1	16222.0	16006.1	15830.9	16600.2	17103.8	18839.9
67.5°	12613.4	12892.0	14640.9	16530.1	18491.2	18505.9	18304.9	17893.5	18384.2	18577.9	19269.7
70°	10751.9	11168.9	13351.4	16793.9	20223.5	21629.3	21435.6	20376.7	20164.5	19227.3	18059.5
72.5°	6927.5	7488.4	9831.3	14622.5	20609.1	24568.2	24557.1	22618.2	20727.2	17965.4	14484.1
75°	2527.5	2870.6	4567.9	9178.3	17299.4	24418.8	24490.7	22234.4	18921.0	13877.2	9023.3
77.5°	920.6	1007.3	1490.7	3527.4	10639.4	19592.6	19742.0	17775.4	13467.6	6964.4	3575.4
80°	483.4	531.3	763.8	1368.9	4558.7	11635.6	11869.9	10563.8	6329.8	2097.6	1071.9
82.5°	267.5	289.6	428.0	743.5	2053.3	4975.6	5115.8	4173.1	2226.8	889.2	442.8
85°	143.9	153.1	201.1	405.9	1003.6	1725.0	1763.7	1247.1	887.4	522.1	214.0
87.5°	42.4	51.7	66.4	129.1	393.0	387.4	396.6	247.2	350.5	263.8	70.1
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°	3532.9	3532.9	3532.9	3532.9	3532.9	3532.9	3532.9	3532.9	3532.9	3532.9	3532.9
2.5°	3549.5	3544.0	3523.7	3514.5	3503.4	3501.6	3510.8	3512.6	3514.5	3516.3	3523.7
5°	3582.7	3564.3	3545.9	3534.8	3538.5	3540.3	3558.8	3571.7	3580.9	3588.3	3592.0
7.5°	3647.3	3632.6	3601.2	3599.4	3604.9	3621.5	3645.5	3675.0	3691.6	3704.5	3708.2
10°	3743.3	3715.6	3678.7	3684.2	3695.3	3719.3	3769.1	3793.1	3820.7	3844.7	3839.2
12.5°	3841.0	3817.0	3774.6	3778.3	3796.8	3839.2	3887.2	3916.7	3935.1	3953.6	3960.9
15°	3968.3	3925.9	3879.8	3879.8	3913.0	3959.1	3981.2	4005.2	4016.3	4036.6	4044.0
17.5°	4099.3	4044.0	3983.1	3979.4	4020.0	4042.1	4055.0	4058.7	4062.4	4084.6	4091.9
20°	4230.3	4169.4	4082.7	4075.3	4084.6	4080.9	4079.0	4075.3	4080.9	4108.5	4119.6
22.5°	4359.4	4289.3	4169.4	4136.2	4110.4	4075.3	4073.5	4071.6	4075.3	4103.0	4121.5
25°	4510.7	4425.9	4265.4	4165.7	4079.0	4031.1	4036.6	4038.4	4042.1	4064.3	4093.8
27.5°	4674.9	4580.8	4353.9	4156.5	3999.7	3966.5	3957.3	3962.8	3975.7	4010.8	4045.8
30°	4839.1	4728.4	4435.1	4119.6	3900.1	3853.9	3824.4	3837.3	3877.9	3913.0	3951.7
32.5°	4988.5	4877.9	4499.7	4038.4	3772.8	3700.8	3662.1	3678.7	3719.3	3732.2	3778.3
35°	5163.8	5038.4	4527.3	3909.3	3634.4	3523.7	3472.1	3448.1	3468.4	3455.5	3496.0
37.5°	5359.4	5228.4	4523.6	3739.6	3472.1	3344.8	3272.8	3182.4	3140.0	3095.7	3123.4
40°	5649.0	5460.8	4479.4	3534.8	3271.0	3154.7	3025.6	2872.5	2776.5	2689.8	2695.4
42.5°	6043.8	5783.7	4398.2	3309.7	3044.0	2935.2	2759.9	2581.0	2429.7	2285.8	2272.9
45°	6632.3	6206.2	4296.7	3069.9	2798.7	2691.7	2501.7	2300.6	2129.0	1944.5	1922.4
47.5°	7481.0	6774.4	4200.8	2796.8	2540.4	2442.6	2271.0	2084.7	1881.8	1702.8	1682.5
50°	8646.9	7589.8	4112.2	2531.2	2285.8	2212.0	2075.5	1885.5	1680.7	1536.8	1527.6
52.5°	10130.2	8698.6	4075.3	2274.7	2047.8	2020.1	1911.3	1734.2	1540.5	1418.7	1409.5
55°	11833.0	10025.1	4075.3	2029.4	1839.3	1848.6	1772.9	1608.7	1440.8	1332.0	1320.9
57.5°	13570.9	11368.1	4001.5	1802.4	1662.2	1701.0	1653.0	1509.1	1357.8	1245.3	1226.8
60°	15172.3	12493.5	3702.7	1595.8	1505.4	1566.3	1534.9	1411.3	1226.8	1132.8	1118.0
62.5°	16402.8	13128.1	3127.1	1431.6	1376.3	1446.4	1429.8	1282.2	1202.9	1164.1	1151.2
65°	17019.0	13024.8	2391.0	1285.9	1267.4	1376.3	1341.2	1335.7	1273.0	1228.7	1213.9
67.5°	16640.8	12135.6	1734.2	1178.9	1204.7	1311.7	1446.4	1468.5	1352.3	1265.6	1250.8
70°	14982.2	10526.9	1291.4	1077.4	1125.4	1313.6	1649.3	1536.8	1326.5	1225.0	1208.4
72.5°	11397.6	7849.9	1001.8	970.4	1022.1	1322.8	1739.7	1505.4	1252.7	1354.1	1343.1
75°	6517.9	4309.6	804.4	839.4	892.9	1236.1	1693.6	1424.2	1195.5	1243.4	1243.4
77.5°	2485.0	1656.7	664.2	710.3	717.7	1079.3	1619.8	1418.7	1138.3	1110.6	1012.8
80°	861.6	647.6	549.8	564.5	555.3	959.3	1553.4	1234.2	931.7	833.9	806.2
82.5°	352.4	322.9	435.4	416.9	394.8	745.3	1254.5	1009.1	761.9	673.4	666.0
85°	153.1	204.8	287.8	252.7	228.8	516.6	1005.5	854.2	643.9	555.3	553.5
87.5°	31.4	77.5	121.8	114.4	118.1	345.0	714.0	607.0	455.7	341.3	267.5
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)