

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: P951628

Luminaire Tested: **GALN-SB5D-722-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951628
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB5D-722-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32453 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 364.9
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

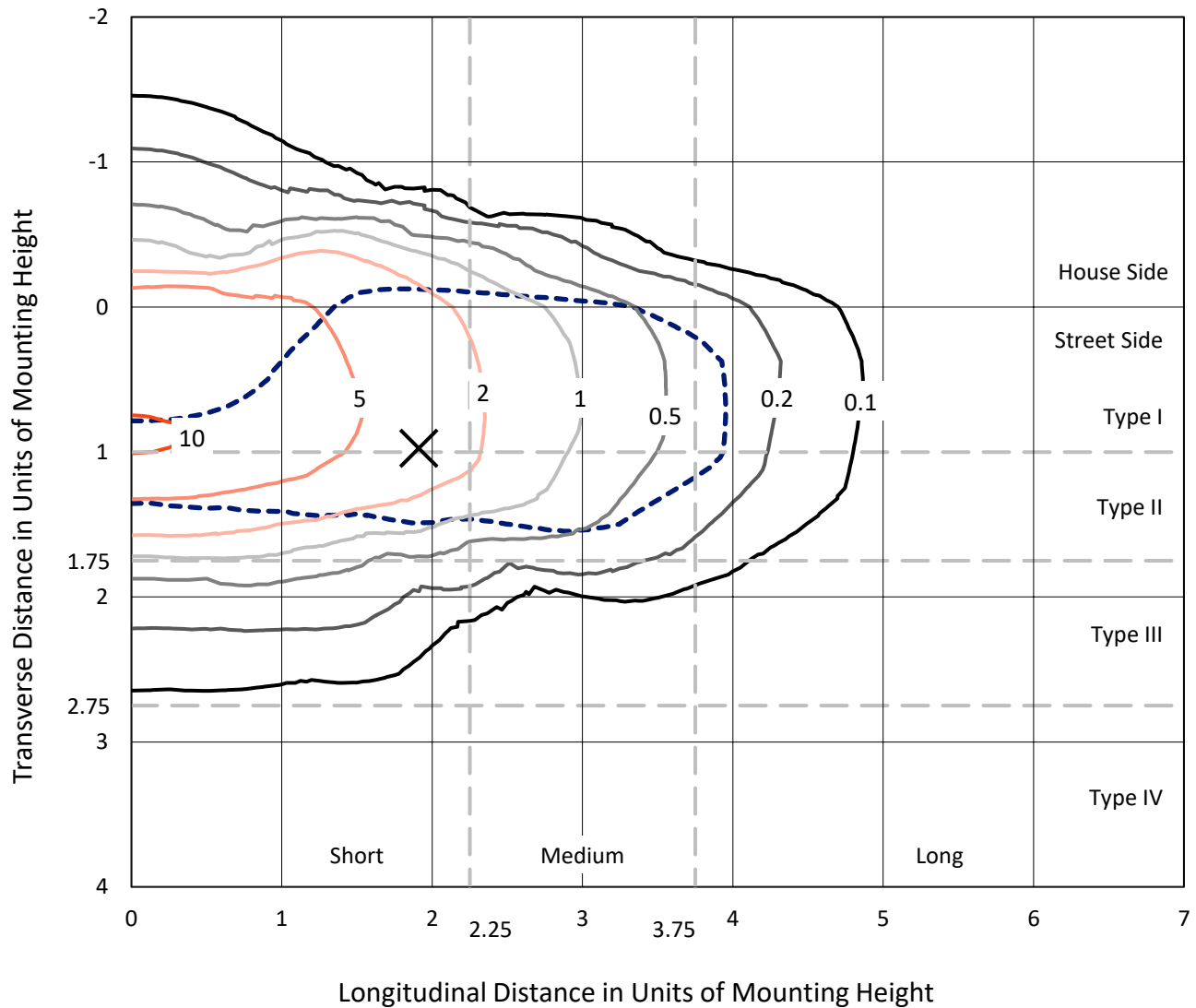


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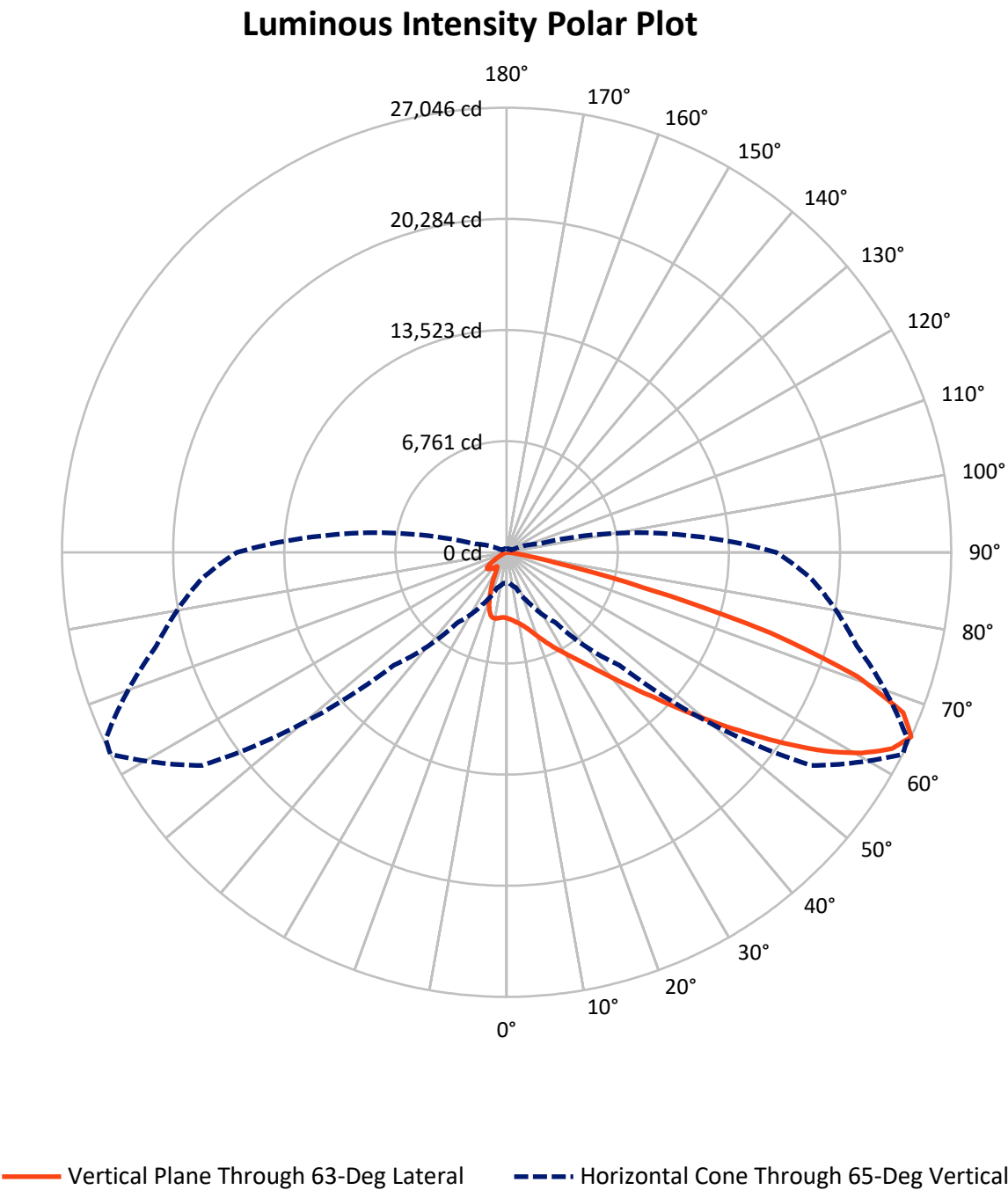
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc
Type II - Short - N/A

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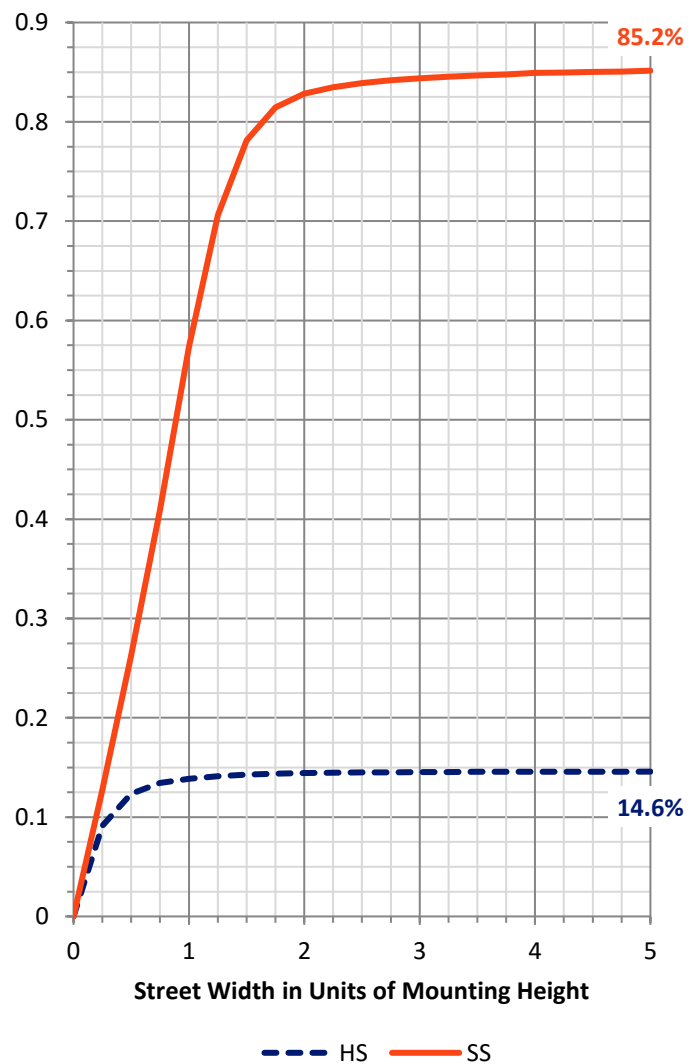
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4770.3	0.0	4770.3
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	27682.7	0.0	27682.7
	% Fixture	85.3	0.0	85.3
Total	Lumens	32453.0	0.0	32453.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	377.4	1.2
10°-20°	1047.1	3.2
20°-30°	1823.2	5.6
30°-40°	3286.2	10.1
40°-50°	6517.6	20.1
50°-60°	8878.0	27.4
60°-70°	7086.3	21.8
70°-80°	3206.7	9.9
80°-90°	230.5	0.7
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°	32453.0	100.0
0°-180°	32453.0	100.0

Coefficient of Utilization



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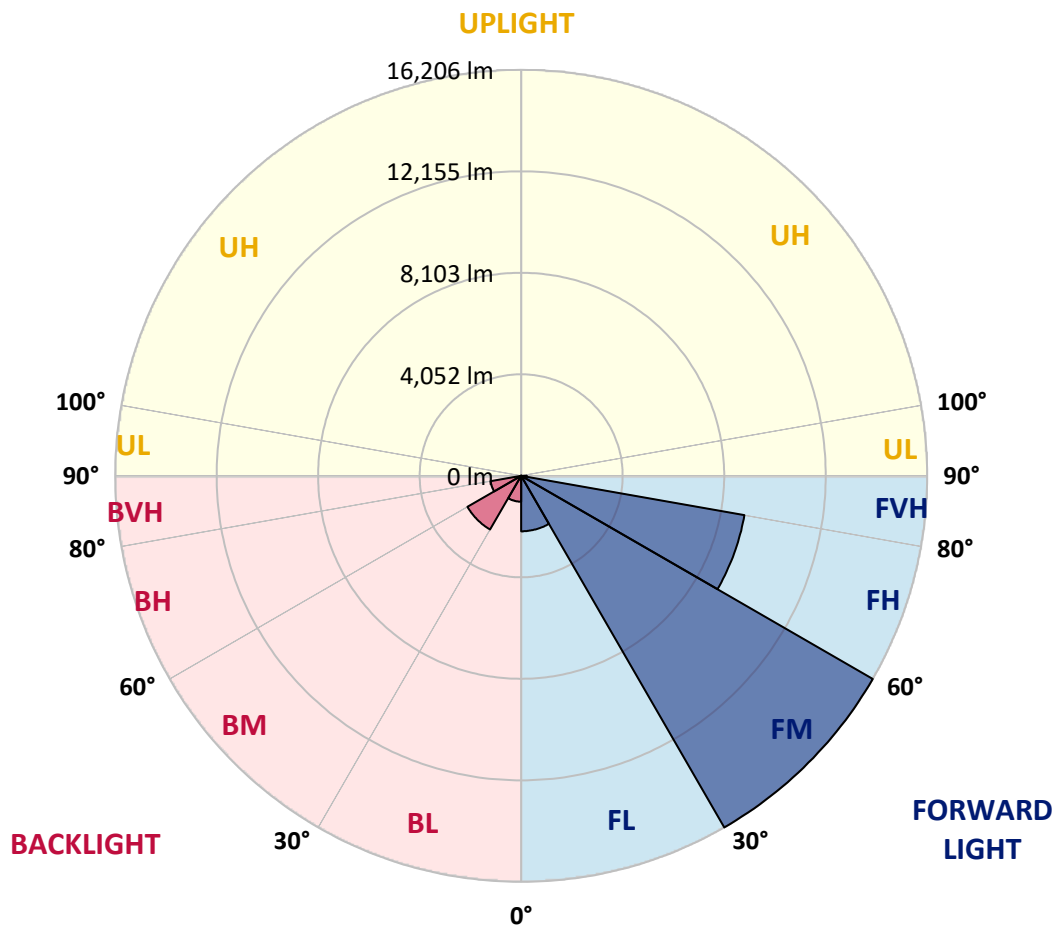
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2215.3	6.8			
FM	(30°-60°)	16206.2	49.9			
FH	(60°-80°)	9047.7	27.9			G4/12000
FVH	(80°-90°)	213.4	0.7			G2/225
BL	(0°-30°)	1032.4	3.2	B3/2500		
BM	(30°-60°)	2475.5	7.6	B2/2500		
BH	(60°-80°)	1245.3	3.8	B3/2500		G3/2500
BVH	(80°-90°)	17.1	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3
2.5°	4099.1	4087.9	4103.5	4096.9	4092.4	4083.5	4079.0	4074.5	4065.6	4058.9	4032.1
5°	4110.2	4103.5	4119.2	4132.6	4146.0	4159.4	4166.1	4175.0	4166.1	4148.2	4121.4
7.5°	4016.5	4012.0	4045.5	4085.7	4146.0	4197.3	4253.1	4284.4	4286.6	4279.9	4250.9
10°	4009.8	3998.6	4032.1	4081.2	4159.4	4250.9	4349.1	4416.1	4425.0	4454.1	4422.8
12.5°	4114.7	4103.5	4150.4	4204.0	4284.4	4380.4	4501.0	4594.7	4608.1	4648.3	4626.0
15°	4291.1	4275.5	4329.0	4398.3	4501.0	4610.4	4737.6	4822.5	4833.6	4882.7	4842.5
17.5°	4496.5	4480.9	4543.4	4617.1	4728.7	4878.3	5025.6	5119.4	5132.8	5164.0	5090.4
20°	4759.9	4739.8	4789.0	4855.9	4974.3	5152.9	5329.3	5463.2	5461.0	5461.0	5340.4
22.5°	5065.8	5034.5	5077.0	5130.6	5242.2	5458.7	5693.2	5851.7	5851.7	5789.2	5590.5
25°	5394.0	5362.7	5409.6	5458.7	5557.0	5802.6	6077.2	6273.7	6282.6	6175.4	5858.4
27.5°	5804.8	5764.6	5800.3	5858.4	5916.4	6166.5	6492.4	6720.2	6724.6	6559.4	6112.9
30°	6595.1	6481.3	6369.7	6307.1	6333.9	6581.8	6930.0	7182.3	7204.7	6976.9	6389.7
32.5°	8041.9	8019.6	7626.6	7113.1	6845.2	7028.3	7419.0	7722.6	7736.0	7443.5	6749.2
35°	10290.1	10263.3	9631.5	8653.6	7780.7	7626.6	8012.9	8372.3	8363.4	8033.0	7215.8
37.5°	12973.7	12949.2	12116.4	10808.1	9394.8	8530.8	8778.6	9156.0	9211.8	8778.6	7818.6
40°	15266.6	15175.1	14648.2	13386.8	11538.2	10031.1	9868.2	10118.2	10176.3	9662.8	8584.4
42.5°	17003.6	16925.5	16657.5	15869.4	14132.5	12250.4	11151.9	11247.9	11312.7	10696.5	9464.1
45°	17903.3	17885.5	17992.7	17919.0	16775.9	14974.2	12987.1	12587.5	12612.0	11841.8	10462.0
47.5°	18030.6	18021.7	18510.6	19202.7	19048.7	18046.2	15342.5	14257.5	14170.4	13134.5	11547.1
50°	17280.4	17262.6	18200.3	19497.4	20566.9	20627.1	18017.2	16139.6	15947.6	14471.8	12679.0
52.5°	14884.9	14880.4	16420.9	18579.8	21100.5	22886.5	20660.6	18207.0	17885.5	15887.3	13875.7
55°	11453.3	11535.9	13301.9	15853.8	20127.0	23973.8	23033.9	20502.1	20008.7	17311.7	14978.6
57.5°	8113.3	8233.9	9979.8	12252.6	17108.5	23330.8	24639.2	22801.7	22270.3	18731.6	16097.2
60°	4358.1	4465.2	6213.4	8926.0	12728.1	20933.0	25485.3	24797.7	24295.3	20080.1	17106.3
62.5°	2596.5	2632.3	3355.6	5762.4	8609.0	15992.2	25125.9	26318.1	25905.0	21212.1	17983.7
65°	1864.2	1870.9	2234.8	3518.6	5226.6	9716.3	22605.2	27045.9	26918.7	22064.9	18633.4
67.5°	1569.5	1565.1	1716.9	2337.5	3561.0	4867.1	17325.1	26016.7	26557.0	22605.2	19001.8
70°	1346.3	1353.0	1531.6	1712.4	2676.9	2755.0	8613.4	22652.1	23804.2	22748.1	18979.5
72.5°	1002.4	1024.8	1190.0	1560.6	2020.5	1895.5	2973.8	16796.0	18879.0	21433.1	17994.9
75°	707.7	718.9	837.2	1312.8	1507.0	1379.8	1518.2	8682.6	11352.9	16432.1	14728.6
77.5°	544.8	564.9	634.1	917.6	1484.7	969.0	928.8	3005.1	4617.1	9926.2	10098.1
80°	294.7	330.4	457.7	663.1	1042.6	685.4	459.9	1196.7	1565.1	4641.6	3893.7
82.5°	151.8	169.7	319.3	477.8	593.9	598.3	227.7	497.9	645.2	1433.3	533.6
85°	60.3	73.7	214.3	263.4	305.9	294.7	102.7	200.9	232.2	397.4	163.0
87.5°	13.4	22.3	78.1	60.3	58.0	62.5	24.6	46.9	44.7	46.9	29.0
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°	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3	4005.3
2.5°	4029.9	4020.9	3996.4	3969.6	3938.3	3920.5	3909.3	3907.1	3891.4	3880.3	3891.4
5°	4096.9	4087.9	4041.0	3985.2	3924.9	3878.1	3833.4	3793.2	3735.2	3724.0	3719.5
7.5°	4230.8	4206.2	4130.3	4054.4	3940.6	3804.4	3639.2	3449.4	3279.7	3228.4	3203.8
10°	4396.0	4362.5	4266.5	4132.6	3880.3	3509.7	3110.0	2739.4	2444.7	2362.1	2330.9
12.5°	4583.6	4554.5	4427.3	4179.5	3628.0	2956.0	2344.2	1884.3	1598.6	1527.1	1507.0
15°	4806.8	4764.4	4588.0	4108.0	3177.0	2246.0	1609.7	1337.3	1234.6	1221.2	1207.8
17.5°	5043.5	4974.3	4730.9	3851.3	2569.7	1596.3	1243.6	1165.4	1120.8	1107.4	1100.7
20°	5260.0	5170.7	4815.8	3462.8	1920.0	1243.6	1114.1	1062.7	1022.5	1006.9	998.0
22.5°	5476.6	5349.3	4815.8	2933.7	1440.0	1102.9	1022.5	975.7	928.8	908.7	897.5
25°	5702.1	5532.4	4730.9	2344.2	1158.7	1011.4	935.5	884.1	843.9	819.4	810.4
27.5°	5920.9	5686.5	4536.7	1786.1	1031.5	931.0	855.1	806.0	768.0	750.2	750.2
30°	6128.5	5838.3	4264.3	1355.2	948.9	852.9	781.4	739.0	701.0	683.2	685.4
32.5°	6409.8	6030.3	3974.1	1111.8	877.4	779.2	714.4	674.3	640.8	627.4	627.4
35°	6800.5	6313.8	3724.0	1091.7	817.1	718.9	654.2	616.2	582.7	571.5	571.5
37.5°	7354.2	6771.5	3592.3	1225.7	768.0	665.3	605.0	564.9	533.6	524.7	522.4
40°	8037.4	7392.2	3663.7	1359.7	734.5	618.4	560.4	520.2	493.4	482.2	480.0
42.5°	8847.9	8158.0	4058.9	1462.4	712.2	578.2	518.0	473.3	455.5	451.0	451.0
45°	9778.9	8999.7	4663.9	1571.8	676.5	540.3	475.5	442.1	428.7	426.4	424.2
47.5°	10837.1	9924.0	5365.0	1708.0	640.8	504.6	442.1	419.7	408.6	404.1	404.1
50°	11886.4	10855.0	6086.1	1783.9	611.7	471.1	415.3	397.4	388.5	386.2	386.2
52.5°	12984.9	11812.8	6668.8	1712.4	587.2	444.3	392.9	379.5	370.6	368.4	368.4
55°	14032.0	12587.5	6769.3	1453.4	538.1	417.5	368.4	361.7	350.5	350.5	348.3
57.5°	14934.0	12976.0	6059.3	1067.2	488.9	377.3	343.8	337.1	328.2	326.0	323.7
60°	15762.3	12864.3	4677.3	718.9	435.4	337.1	312.6	308.1	299.2	288.0	285.8
62.5°	16228.9	12373.2	3199.3	468.8	381.8	294.7	276.8	274.6	254.5	232.2	227.7
65°	16405.3	11364.0	1996.0	341.6	319.3	252.3	238.9	234.4	205.4	180.8	178.6
67.5°	16251.2	9702.9	1006.9	270.1	252.3	209.9	196.5	196.5	176.4	154.1	151.8
70°	15635.0	7273.9	424.2	216.6	194.2	160.7	160.7	169.7	149.6	125.0	122.8
72.5°	14297.7	4893.9	225.5	165.2	145.1	113.9	131.7	138.4	118.3	93.8	93.8
75°	11366.2	2985.0	156.3	122.8	91.5	80.4	100.5	104.9	80.4	62.5	60.3
77.5°	7774.0	1714.6	104.9	78.1	58.0	46.9	69.2	64.7	42.4	29.0	31.3
80°	3413.7	714.4	60.3	35.7	22.3	17.9	24.6	17.9	13.4	8.9	8.9
82.5°	399.6	167.4	22.3	13.4	8.9	4.5	2.2	0.0	0.0	0.0	0.0
85°	82.6	20.1	11.2	4.5	2.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.6	4.5	2.2	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)