

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: P948796

Luminaire Tested: **GALN-SB3D-727-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948796
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB3D-727-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29073 lumens
Efficiency: N/A
Efficacy: 133.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 218.1
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

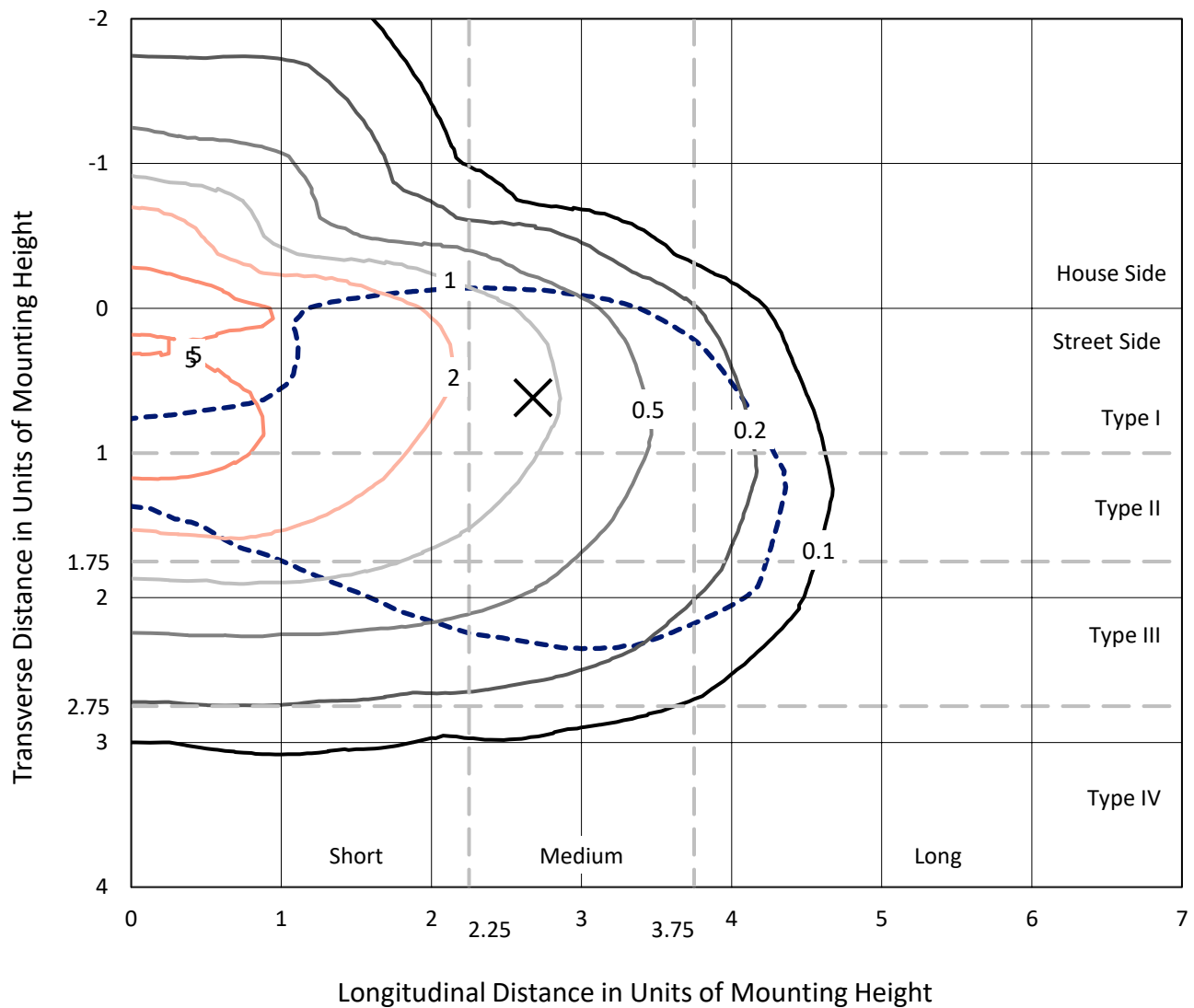


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

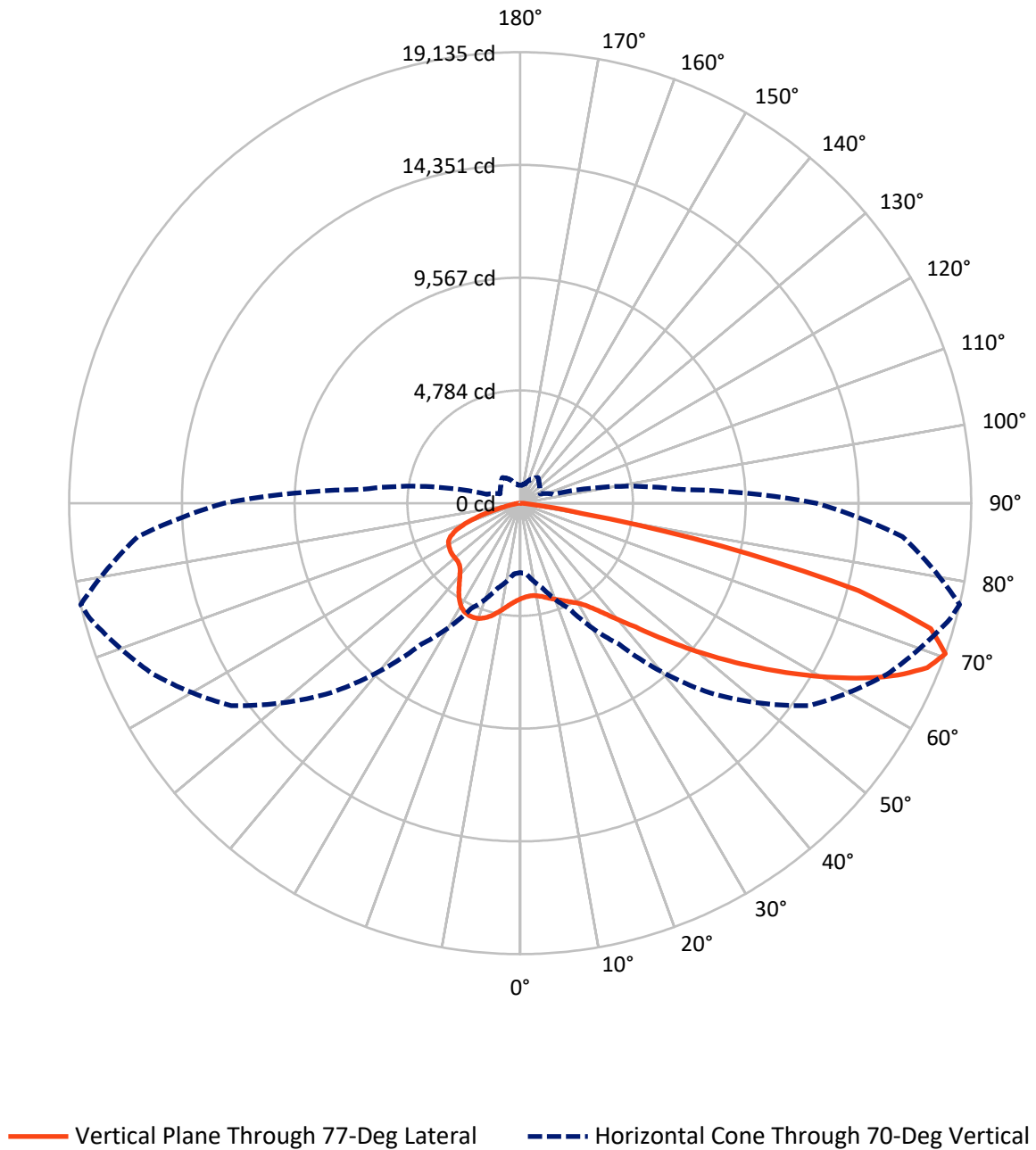


Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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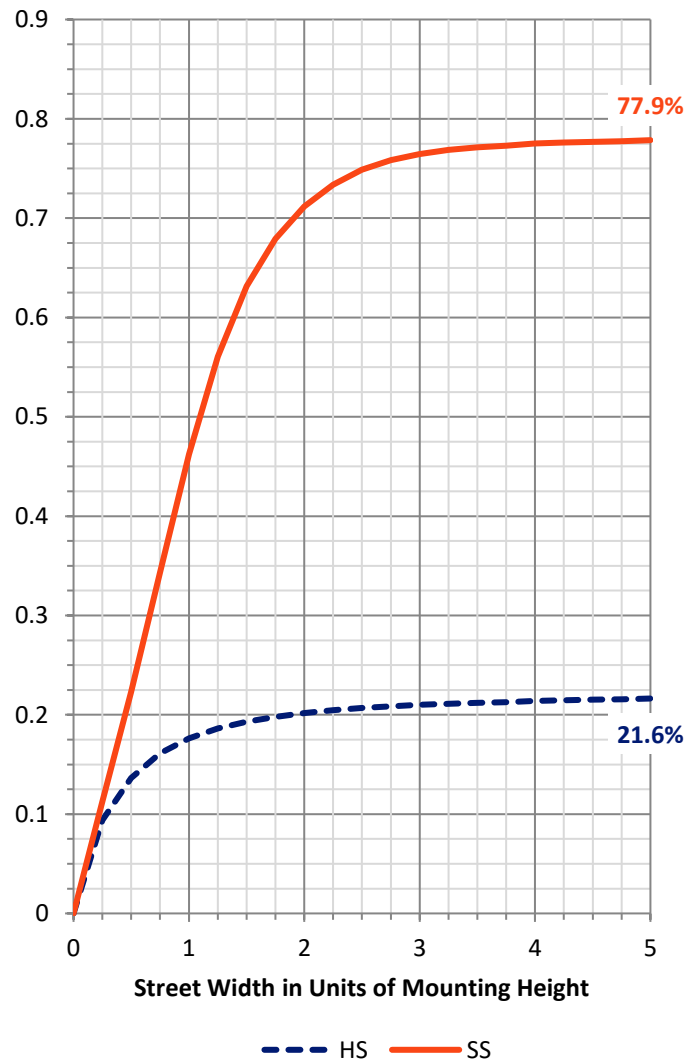
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6366.5	0.0	6366.5
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	22706.5	0.0	22706.5
	% Fixture	78.1	0.0	78.1
Total	Lumens	29073.0	0.0	29073.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.8	1.3
10°-20°	1116.4	3.8
20°-30°	1909.2	6.6
30°-40°	3070.3	10.6
40°-50°	4793.5	16.5
50°-60°	6402.9	22.0
60°-70°	6824.5	23.5
70°-80°	4201.2	14.5
80°-90°	368.1	1.3
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°	29073.0	100.0
0°-180°	29073.0	100.0

Coefficient of Utilization



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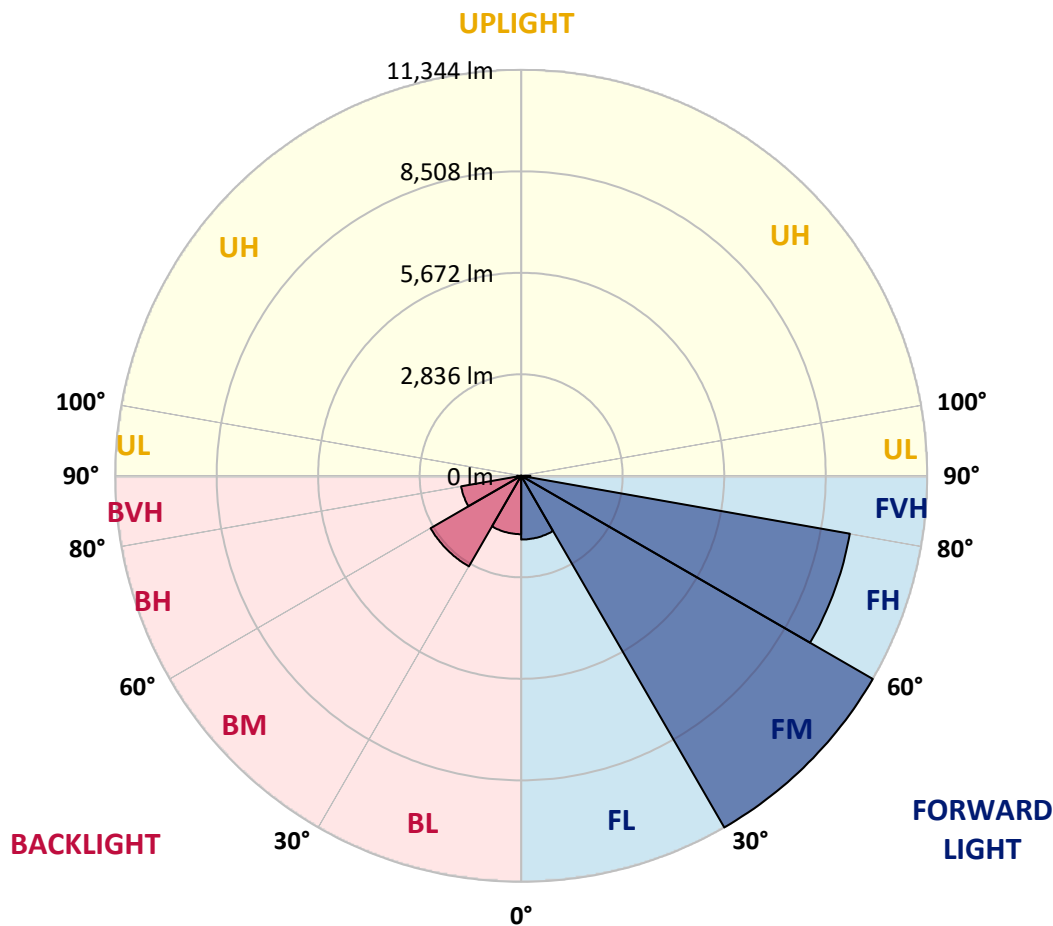
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1781.2	6.1			
FM	(30°-60°)	11343.7	39.0			
FH	(60°-80°)	9324.2	32.1			G4/12000
FVH	(80°-90°)	257.4	0.9			G3/500
BL	(0°-30°)	1631.3	5.6	B3/2500		
BM	(30°-60°)	2923.0	10.1	B3/5000		
BH	(60°-80°)	1701.5	5.9	B3/2500		G3/2500
BVH	(80°-90°)	110.7	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	4055.9	4055.9	4055.9	4055.9	4055.9	4055.9	4055.9	4055.9	4055.9	4055.9	4055.9
2.5°	3738.8	3737.3	3756.7	3762.6	3798.4	3823.7	3871.3	3921.9	3987.5	3994.9	4035.1
5°	3522.9	3522.9	3545.2	3569.1	3615.2	3665.8	3738.8	3826.6	3939.8	3957.7	4057.4
7.5°	3339.8	3351.7	3371.0	3417.2	3470.8	3543.7	3655.4	3780.5	3929.4	3957.7	4118.5
10°	3192.3	3205.7	3229.6	3266.8	3347.2	3448.4	3594.4	3755.2	3954.7	3999.4	4207.8
12.5°	3146.2	3159.6	3173.0	3201.3	3275.7	3394.8	3569.1	3767.1	4015.7	4060.4	4329.9
15°	3253.4	3269.8	3259.4	3251.9	3290.6	3399.3	3581.0	3810.3	4091.7	4155.7	4480.3
17.5°	3500.6	3506.5	3482.7	3412.7	3406.8	3464.8	3637.5	3869.8	4187.0	4257.0	4632.2
20°	3899.6	3889.2	3840.0	3701.6	3622.7	3610.7	3734.3	3959.2	4285.2	4359.7	4796.0
22.5°	4441.6	4429.7	4331.4	4112.5	3936.8	3820.7	3874.3	4075.3	4395.4	4478.8	4955.3
25°	5117.6	5101.2	4956.8	4659.0	4386.5	4099.1	4064.9	4228.7	4530.9	4608.4	5122.0
27.5°	5906.7	5893.3	5737.0	5343.9	4950.8	4480.3	4301.6	4408.8	4672.4	4760.2	5309.7
30°	6755.4	6794.2	6517.2	6094.3	5597.0	4977.6	4620.3	4630.7	4855.5	4934.4	5537.5
32.5°	7753.1	7820.1	7486.5	6950.5	6271.5	5518.1	5022.3	4940.4	5122.0	5187.6	5824.8
35°	8741.7	8817.7	8540.7	7948.1	7166.4	6155.4	5442.2	5296.3	5476.4	5547.9	6206.0
37.5°	9596.4	9697.6	9554.7	9039.5	8123.8	6923.7	5990.1	5714.7	5912.7	6002.0	6718.2
40°	10270.9	10425.8	10415.3	10093.7	9252.4	7855.8	6685.5	6231.3	6454.7	6551.5	7339.1
42.5°	10818.8	10952.8	11069.0	11052.6	10430.2	8914.5	7502.9	6902.9	7072.6	7184.3	8037.4
45°	11197.0	11340.0	11590.1	11859.6	11563.3	10047.6	8439.5	7699.5	7854.3	8022.6	8869.8
47.5°	11535.0	11697.3	12021.9	12449.3	12525.2	11185.1	9465.4	8627.1	8768.5	8942.7	9705.1
50°	11564.8	11704.8	12208.0	12814.1	13208.6	12278.0	10567.2	9667.9	9800.4	9986.5	10600.0
52.5°	10845.6	11066.0	11944.5	12803.6	13522.8	13192.3	11661.6	10750.3	10899.2	11122.6	11526.1
55°	8418.6	8741.7	11171.7	12404.6	13411.1	13783.4	12702.4	11901.3	12091.9	12325.7	12458.2
57.5°	7251.3	7392.7	8868.3	11678.0	12901.9	13936.7	13580.9	13064.2	13370.9	13627.0	13443.9
60°	6517.2	6634.8	7507.4	10547.8	12231.9	13694.0	14259.8	14148.2	14678.2	14983.5	14451.9
62.5°	5731.0	5842.7	6636.3	8807.2	11374.2	13290.5	14688.7	15148.8	16018.3	16351.8	15401.9
65°	4950.8	5046.1	5807.0	7400.2	10284.3	12887.0	14910.5	16013.9	17258.6	17604.1	16191.0
67.5°	4081.3	4160.2	4879.3	6243.2	8959.1	12334.6	15020.7	16694.3	18338.1	18634.4	16581.1
70°	2945.2	3006.2	3749.2	4937.4	7295.9	11384.6	14976.0	17176.7	18898.0	19134.7	16286.3
72.5°	1392.2	1447.3	2319.8	3205.7	5153.3	9535.4	14072.2	16794.1	18329.2	18211.6	14481.7
75°	743.0	790.6	1332.6	1758.5	2721.8	6536.6	11515.7	14466.8	15391.5	14819.7	10702.7
77.5°	503.3	540.5	824.9	1055.7	1243.3	3103.0	7401.7	10016.3	9636.6	8692.6	5360.3
80°	399.0	437.8	676.0	714.7	601.5	1121.2	3058.3	4636.6	3330.8	2663.8	1524.7
82.5°	306.7	349.9	568.8	518.2	327.6	460.1	890.4	1466.6	853.2	649.2	369.3
85°	187.6	233.8	446.7	330.6	184.6	209.9	302.3	408.0	260.6	217.4	132.5
87.5°	95.3	134.0	226.3	120.6	83.4	49.1	80.4	80.4	68.5	59.6	34.2
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°	4055.9	4055.9	4055.9	4055.9	4055.9	4055.9	4055.9	4055.9	4055.9	4055.9	4055.9
2.5°	4070.8	4100.6	4151.2	4198.9	4236.1	4271.8	4307.6	4326.9	4332.9	4356.7	4370.1
5°	4118.5	4173.6	4271.8	4364.2	4422.2	4458.0	4483.3	4498.2	4501.2	4508.6	4520.5
7.5°	4206.3	4294.2	4431.2	4523.5	4566.7	4563.7	4553.3	4516.0	4501.2	4487.7	4490.7
10°	4329.9	4446.1	4614.3	4678.3	4651.5	4580.1	4487.7	4379.1	4328.4	4279.3	4264.4
12.5°	4483.3	4630.7	4796.0	4793.0	4660.5	4477.3	4262.9	4096.2	3990.4	3914.5	3896.6
15°	4669.4	4839.1	4965.7	4864.5	4574.1	4245.0	3930.9	3713.5	3618.2	3534.8	3525.9
17.5°	4861.5	5043.1	5101.2	4842.1	4356.7	3901.1	3545.2	3374.0	3280.2	3235.5	3248.9
20°	5049.1	5229.3	5181.6	4714.1	4026.2	3511.0	3193.8	3100.0	3080.7	3091.1	3086.6
22.5°	5247.1	5407.9	5198.0	4466.9	3604.8	3111.9	2937.7	2940.7	2983.9	3015.2	3022.6
25°	5449.6	5558.3	5154.8	4109.6	3152.1	2818.6	2775.4	2823.1	2908.0	2969.0	2985.4
27.5°	5644.7	5692.3	5061.0	3667.3	2763.5	2608.7	2616.1	2714.4	2842.4	2927.3	2948.2
30°	5865.0	5811.4	4880.8	3170.0	2494.0	2428.5	2491.0	2605.7	2733.7	2809.7	2827.6
32.5°	6113.7	5914.2	4595.0	2709.9	2303.4	2284.1	2386.8	2461.3	2517.8	2540.2	2552.1
35°	6423.4	6058.6	4228.7	2386.8	2132.2	2178.4	2276.6	2239.4	2217.1	2205.2	2217.1
37.5°	6825.4	6253.7	3799.8	2176.9	1993.7	2102.4	2142.6	2026.5	1938.6	1895.5	1905.9
40°	7309.3	6539.5	3387.4	2014.6	1905.9	2036.9	1966.9	1827.0	1715.3	1654.2	1658.7
42.5°	7846.9	6838.8	3040.5	1892.5	1856.7	1983.3	1837.4	1670.6	1490.5	1471.1	1490.5
45°	8411.2	7147.0	2803.7	1798.7	1832.9	1937.1	1762.9	1493.4	1365.4	1444.3	1486.0
47.5°	8975.5	7430.0	2660.8	1728.7	1821.0	1885.0	1697.4	1395.2	1304.3	1419.0	1472.6
50°	9603.8	7683.1	2596.8	1678.1	1807.6	1864.2	1599.2	1369.9	1240.3	1316.2	1372.8
52.5°	10227.7	7879.6	2549.1	1627.4	1788.3	1847.8	1551.5	1340.1	1162.9	1167.4	1198.6
55°	10850.1	8007.7	2497.0	1560.4	1745.1	1812.1	1547.0	1307.3	1104.8	1084.0	1098.9
57.5°	11514.2	8080.6	2433.0	1486.0	1670.6	1721.2	1542.6	1282.0	1086.9	1052.7	1057.2
60°	12190.2	8187.8	2349.6	1395.2	1570.9	1612.6	1532.1	1273.1	1076.5	1018.5	1022.9
62.5°	12796.2	8225.1	2249.8	1308.8	1442.8	1505.3	1509.8	1265.6	1048.2	948.5	948.5
65°	13193.7	8064.3	2075.6	1210.5	1304.3	1395.2	1466.6	1240.3	997.6	897.8	897.8
67.5°	13177.4	7605.6	1803.1	1084.0	1170.3	1273.1	1404.1	1197.1	936.6	835.3	839.8
70°	12563.9	6700.4	1457.7	936.6	1022.9	1142.0	1323.7	1133.1	863.6	766.8	775.8
72.5°	10775.7	5244.1	1058.7	763.8	851.7	1006.5	1219.5	1055.7	789.2	705.8	701.3
75°	7698.0	3318.9	717.7	586.7	662.6	853.2	1089.9	964.9	720.7	708.7	668.5
77.5°	3932.4	1585.8	475.0	428.8	461.6	673.0	915.7	862.1	731.1	585.2	521.1
80°	1279.0	585.2	299.3	291.8	306.7	448.2	708.7	707.3	553.9	397.6	351.4
82.5°	408.0	251.6	195.1	187.6	180.2	281.4	494.3	559.9	373.7	251.6	250.1
85°	162.3	150.4	114.7	105.7	75.9	132.5	259.1	372.2	278.4	181.7	186.1
87.5°	59.6	59.6	31.3	22.3	16.4	44.7	70.0	111.7	159.3	93.8	92.3
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)