

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: P457189

Luminaire Tested: **GALN-SA8C-730-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457189
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8C-730-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42529 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 429
Input Voltage (V): NR
Input Current (A_{in}): 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

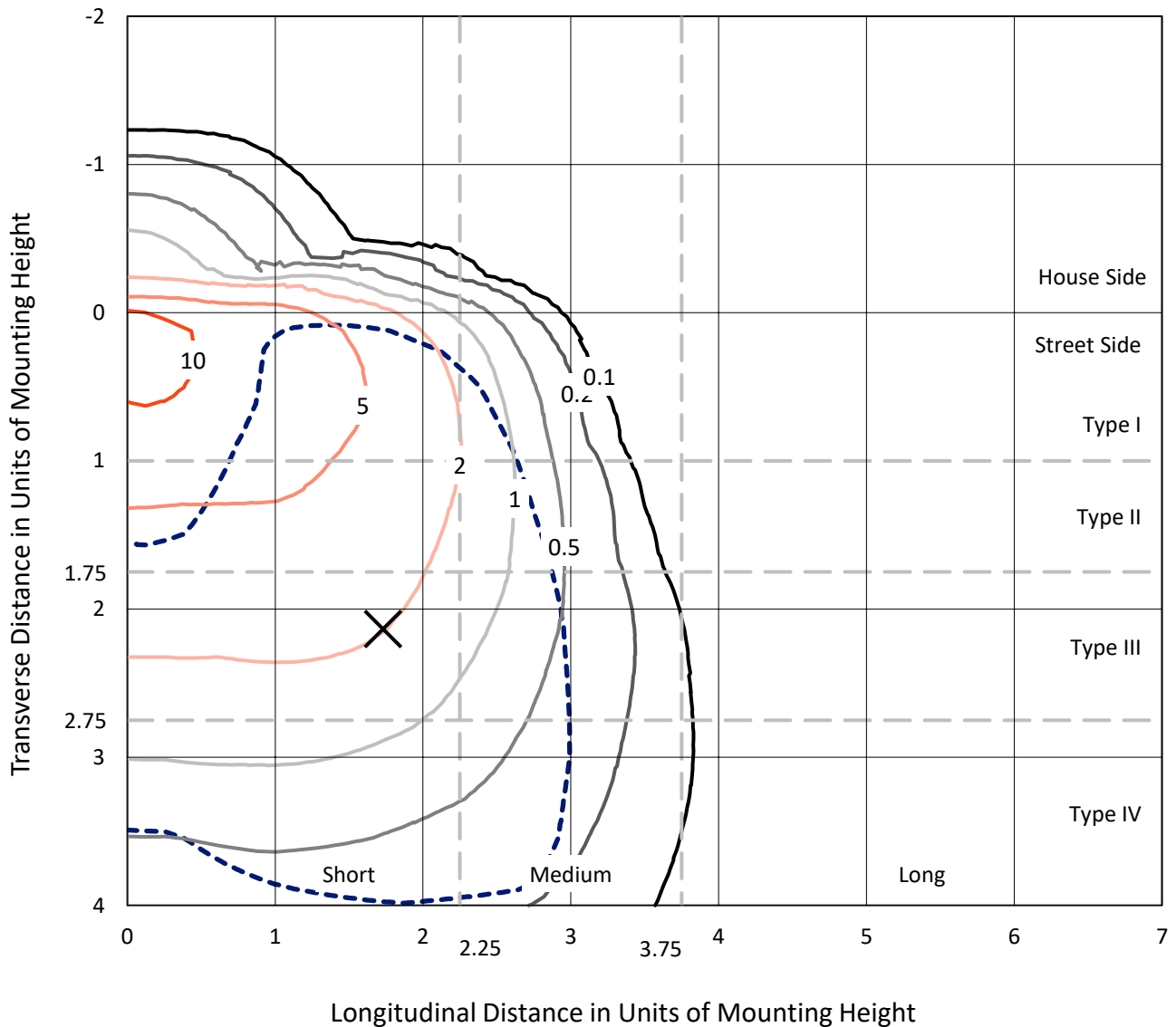




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Iso-Footcandle Lines of Horizontal Illumination

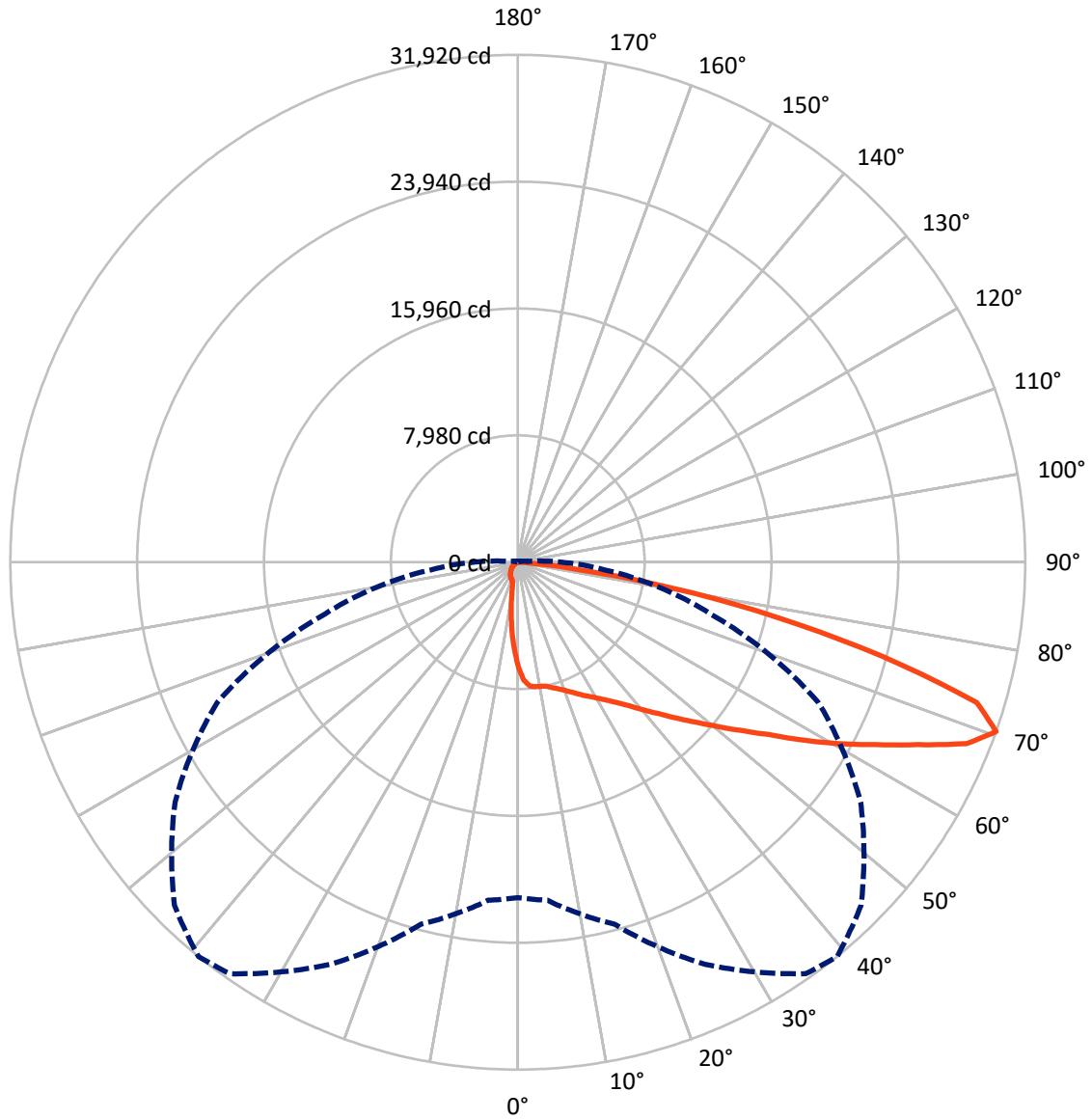
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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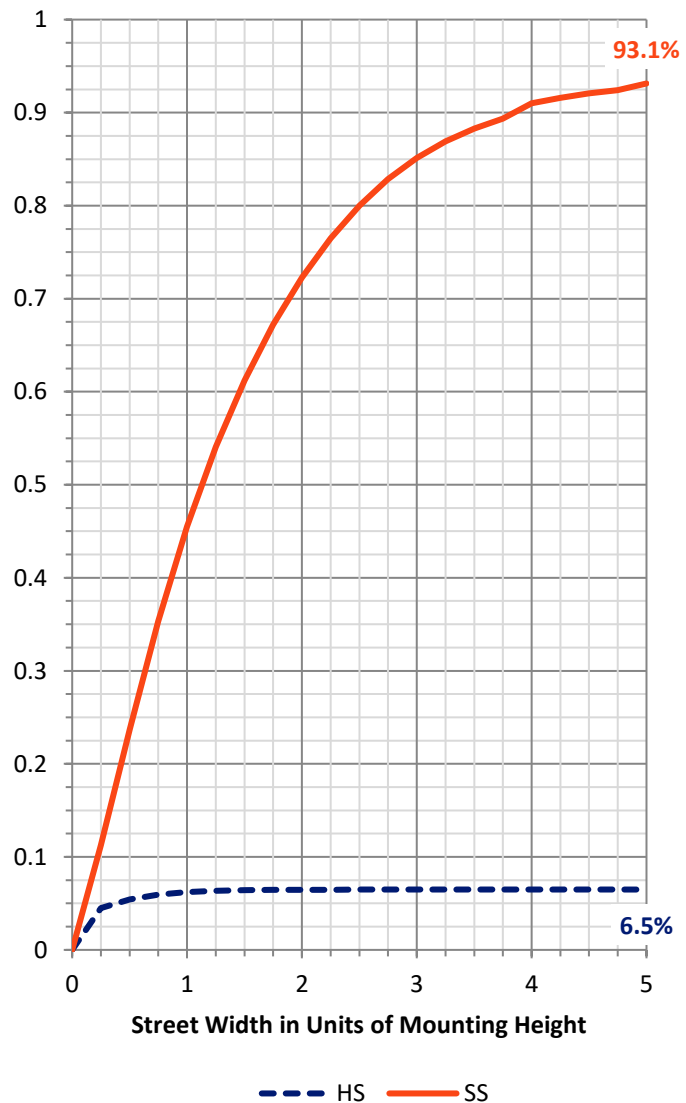
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2773.1	0.0	2773.1
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	39755.9	0.0	39755.9
	% Fixture	93.5	0.0	93.5
Total	Lumens	42529.0	0.0	42529.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	566.0	1.3
10°-20°	1470.9	3.5
20°-30°	2464.1	5.8
30°-40°	3821.6	9.0
40°-50°	6056.0	14.2
50°-60°	8877.2	20.9
60°-70°	11378.5	26.8
70°-80°	7149.9	16.8
80°-90°	744.9	1.8
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°	42529.0	100.0
0°-180°	42529.0	100.0



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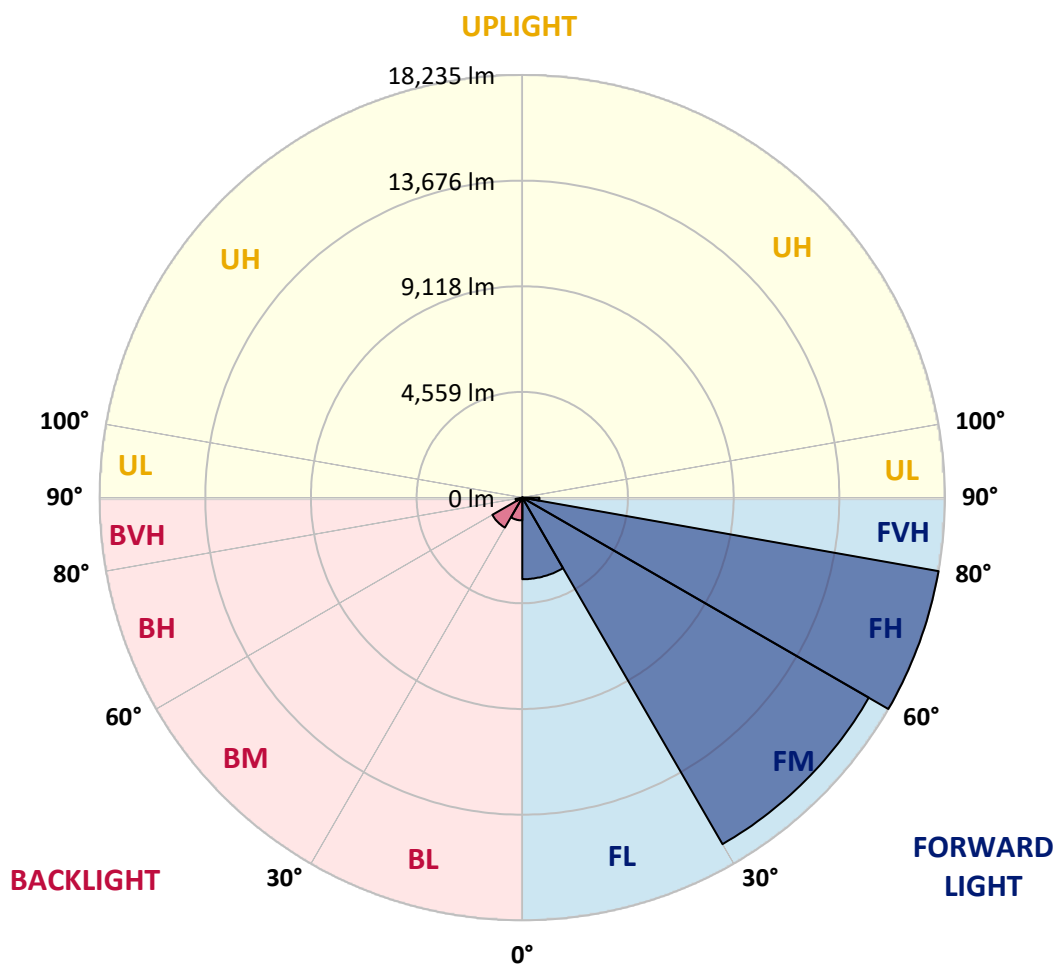
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3519.1	8.3			
FM	(30°-60°)	17262.4	40.6			
FH	(60°-80°)	18235.0	42.9			G5
FVH	(80°-90°)	739.4	1.7			G4/750
BL	(0°-30°)	981.9	2.3	B2/1000		
BM	(30°-60°)	1492.4	3.5	B2/2500		
BH	(60°-80°)	293.3	0.7	B1/500		G1/500
BVH	(80°-90°)	5.5	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	6636.0	6636.0	6636.0	6636.0	6636.0	6636.0	6636.0	6636.0	6636.0	6636.0	6636.0
2.5°	7667.7	7642.0	7607.7	7567.6	7453.3	7433.3	7364.7	7219.0	7044.7	6901.8	6704.6
5°	8030.6	8044.9	8019.2	7947.7	7864.9	7816.3	7730.5	7504.8	7279.0	6990.4	6667.4
7.5°	8113.5	8142.1	8110.6	8042.1	7962.0	7910.6	7842.0	7647.7	7384.7	7056.1	6613.1
10°	8104.9	8139.2	8119.2	8056.3	7990.6	7942.0	7867.7	7713.4	7501.9	7156.1	6630.3
12.5°	8090.6	8136.4	8133.5	8102.1	8047.8	8010.6	7964.9	7827.7	7630.5	7301.9	6724.6
15°	8050.6	8107.8	8159.2	8185.0	8187.8	8187.8	8130.7	7984.9	7796.3	7493.3	6847.5
17.5°	8067.8	8133.5	8262.1	8336.4	8387.9	8382.1	8322.1	8164.9	7956.3	7690.5	6976.1
20°	8173.5	8262.1	8442.2	8590.8	8642.2	8625.1	8545.0	8362.1	8124.9	7859.2	7101.8
22.5°	8433.6	8513.6	8739.4	8913.7	8950.9	8905.1	8790.8	8542.2	8327.8	8042.1	7253.3
25°	8822.3	8916.6	9125.2	9256.7	9256.7	9230.9	9070.9	8779.4	8556.5	8296.4	7450.5
27.5°	9293.8	9373.8	9579.6	9696.8	9628.2	9553.9	9393.8	9042.3	8828.0	8616.5	7687.7
30°	9771.1	9822.5	10039.7	10091.2	10019.7	9925.4	9753.9	9402.4	9213.8	9050.9	8030.6
32.5°	10222.6	10334.1	10514.1	10502.7	10405.5	10359.8	10202.6	9828.2	9722.5	9705.3	8510.7
35°	10674.2	10759.9	10919.9	10959.9	10874.2	10865.6	10751.3	10474.1	10477.0	10588.4	9259.5
37.5°	11062.8	11140.0	11328.6	11417.2	11434.4	11477.2	11431.5	11248.6	11508.7	11814.4	10251.2
40°	11388.6	11497.2	11737.3	11891.6	12068.8	12226.0	12234.6	12274.6	12797.6	13323.4	11545.8
42.5°	11643.0	11794.4	12143.1	12428.9	12834.7	13034.8	13194.8	13414.9	14295.1	15081.0	13071.9
45°	11974.5	12148.8	12583.2	13031.9	13666.4	13995.0	14217.9	14806.6	16055.5	17127.2	14638.0
47.5°	12523.2	12614.7	13057.6	13712.1	14546.6	15015.3	15449.7	16341.3	17944.6	18904.8	15941.2
50°	13229.1	13289.1	13623.5	14532.3	15612.6	16229.9	17021.5	18070.3	19905.1	20379.5	16678.6
52.5°	14009.3	14029.3	14280.8	15435.4	16807.2	17584.5	18470.4	19765.1	21502.6	21431.2	17167.2
55°	14915.2	14886.7	15101.0	16415.6	18221.8	19110.6	20142.3	21499.8	22888.7	22177.1	17447.3
57.5°	15952.7	15875.5	16084.1	17716.0	20033.7	21096.8	22145.7	22997.3	23963.3	22803.0	17581.6
60°	17038.6	16884.3	17133.0	19176.3	22168.5	23177.4	24049.0	24277.6	25095.0	23300.2	17350.2
62.5°	17904.6	17907.4	18370.4	20731.0	24363.4	25246.5	25709.4	25915.2	26069.5	23191.6	16132.7
65°	19256.4	19302.1	20042.3	22888.7	26904.0	27669.9	27987.2	27318.4	26112.4	21842.7	14303.7
67.5°	20651.0	20796.7	22151.4	25860.9	29839.1	30456.4	30047.7	27589.9	24946.4	18764.8	10845.6
70°	21105.4	21345.5	23577.5	27907.1	31599.5	31919.6	30536.4	26323.9	20853.9	12546.1	5458.5
72.5°	19339.2	19727.9	22757.2	27161.2	30476.4	30199.2	27321.3	22077.1	13257.7	4764.1	1666.1
75°	13637.8	13809.2	18913.4	22531.5	24512.0	23726.1	20782.5	14232.2	5452.8	1337.5	571.6
77.5°	7041.8	6958.9	11248.6	14949.5	17481.6	16667.1	13609.2	7367.6	2066.2	557.3	354.4
80°	3640.9	3700.9	4867.0	7833.4	10671.3	9819.7	7256.1	3415.2	1100.3	308.7	271.5
82.5°	2040.5	1914.8	2797.9	3420.9	4989.8	3912.4	2783.6	2417.8	480.1	185.8	257.2
85°	371.5	388.7	1534.7	1849.0	1731.9	1100.3	897.4	1614.7	140.0	102.9	180.0
87.5°	5.7	5.7	297.2	531.6	337.2	154.3	282.9	231.5	28.6	40.0	31.4
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°	6636.0	6636.0	6636.0	6636.0	6636.0	6636.0	6636.0	6636.0	6636.0	6636.0	6636.0
2.5°	6604.5	6495.9	6293.0	6093.0	5838.6	5630.0	5490.0	5344.2	5195.6	5207.0	5241.3
5°	6490.2	6301.6	5901.5	5478.5	5072.7	4706.9	4346.8	4023.9	3892.4	3772.4	3778.1
7.5°	6375.9	6110.1	5524.3	4861.2	4246.8	3623.8	3172.2	2800.7	2603.5	2454.9	2412.0
10°	6324.5	5973.0	5178.5	4266.8	3395.2	2715.0	2134.8	1831.9	1597.6	1523.2	1543.3
12.5°	6347.3	5904.4	4867.0	3729.5	2692.1	1891.9	1486.1	1331.8	1280.3	1271.8	1266.0
15°	6390.2	5855.8	4561.2	3135.1	1977.6	1406.1	1248.9	1220.3	1214.6	1208.9	1211.7
17.5°	6447.4	5812.9	4235.4	2577.8	1517.5	1228.9	1183.2	1168.9	1166.0	1166.0	1166.0
20°	6504.5	5764.3	3872.4	2080.5	1266.0	1160.3	1131.7	1123.1	1120.3	1120.3	1117.4
22.5°	6570.3	5721.5	3503.8	1634.7	1166.0	1111.7	1086.0	1080.3	1077.4	1074.6	1074.6
25°	6664.6	5667.2	3112.2	1337.5	1103.1	1066.0	1040.3	1034.6	1031.7	1020.3	1023.1
27.5°	6790.3	5627.2	2709.3	1154.6	1046.0	1008.8	991.7	983.1	977.4	968.8	971.7
30°	6961.8	5592.9	2280.6	1054.6	980.3	948.8	931.7	926.0	920.2	911.7	911.7
32.5°	7259.0	5607.1	1829.0	974.5	920.2	883.1	865.9	860.2	854.5	845.9	845.9
35°	7704.8	5690.0	1463.2	905.9	848.8	811.6	794.5	794.5	785.9	774.5	771.6
37.5°	8433.6	5901.5	1174.6	840.2	780.2	745.9	725.9	720.2	711.6	694.5	691.6
40°	9293.8	6230.2	988.8	774.5	717.3	683.0	665.9	648.7	625.9	608.7	605.9
42.5°	10374.1	6567.4	857.4	708.8	657.3	625.9	605.9	577.3	543.0	520.1	517.3
45°	11500.1	6876.0	768.8	648.7	600.2	574.4	551.6	505.8	463.0	434.4	431.5
47.5°	12340.3	6933.2	697.3	591.6	551.6	525.8	494.4	437.3	380.1	354.4	345.8
50°	12737.5	6656.0	623.0	534.4	503.0	474.4	434.4	368.7	305.8	274.4	268.6
52.5°	12877.6	6175.9	563.0	483.0	454.4	420.1	371.5	297.2	240.1	208.6	205.8
55°	12820.4	5570.0	508.7	434.4	397.2	357.2	308.7	237.2	177.2	151.5	145.8
57.5°	12520.3	4798.4	454.4	385.8	340.1	300.1	245.8	177.2	120.0	97.2	94.3
60°	11711.6	3746.7	400.1	331.5	288.6	245.8	194.3	125.7	74.3	54.3	54.3
62.5°	10345.5	2780.7	348.7	277.2	242.9	197.2	137.2	80.0	40.0	28.6	25.7
65°	8645.1	2052.0	291.5	234.3	202.9	154.3	97.2	48.6	20.0	8.6	5.7
67.5°	6033.0	1266.0	242.9	191.5	165.8	111.5	60.0	20.0	8.6	0.0	0.0
70°	2740.7	603.0	185.8	145.8	125.7	80.0	31.4	11.4	5.7	0.0	0.0
72.5°	851.6	317.2	131.5	105.7	85.7	51.4	17.1	8.6	5.7	0.0	0.0
75°	394.4	202.9	82.9	57.2	48.6	25.7	11.4	5.7	2.9	0.0	0.0
77.5°	294.4	157.2	48.6	31.4	25.7	17.1	8.6	5.7	2.9	0.0	0.0
80°	257.2	80.0	28.6	20.0	14.3	11.4	5.7	2.9	0.0	0.0	0.0
82.5°	231.5	40.0	17.1	11.4	8.6	5.7	2.9	2.9	0.0	0.0	0.0
85°	125.7	22.9	11.4	8.6	5.7	2.9	2.9	0.0	0.0	0.0	0.0
87.5°	22.9	11.4	8.6	5.7	5.7	2.9	2.9	2.9	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)