

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: P457943

Luminaire Tested: **GALN-SA9B-750-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457943
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-SA9B-750-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 800mA 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: 42432 lumens
Efficiency: N/A
Efficacy: 116.6 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

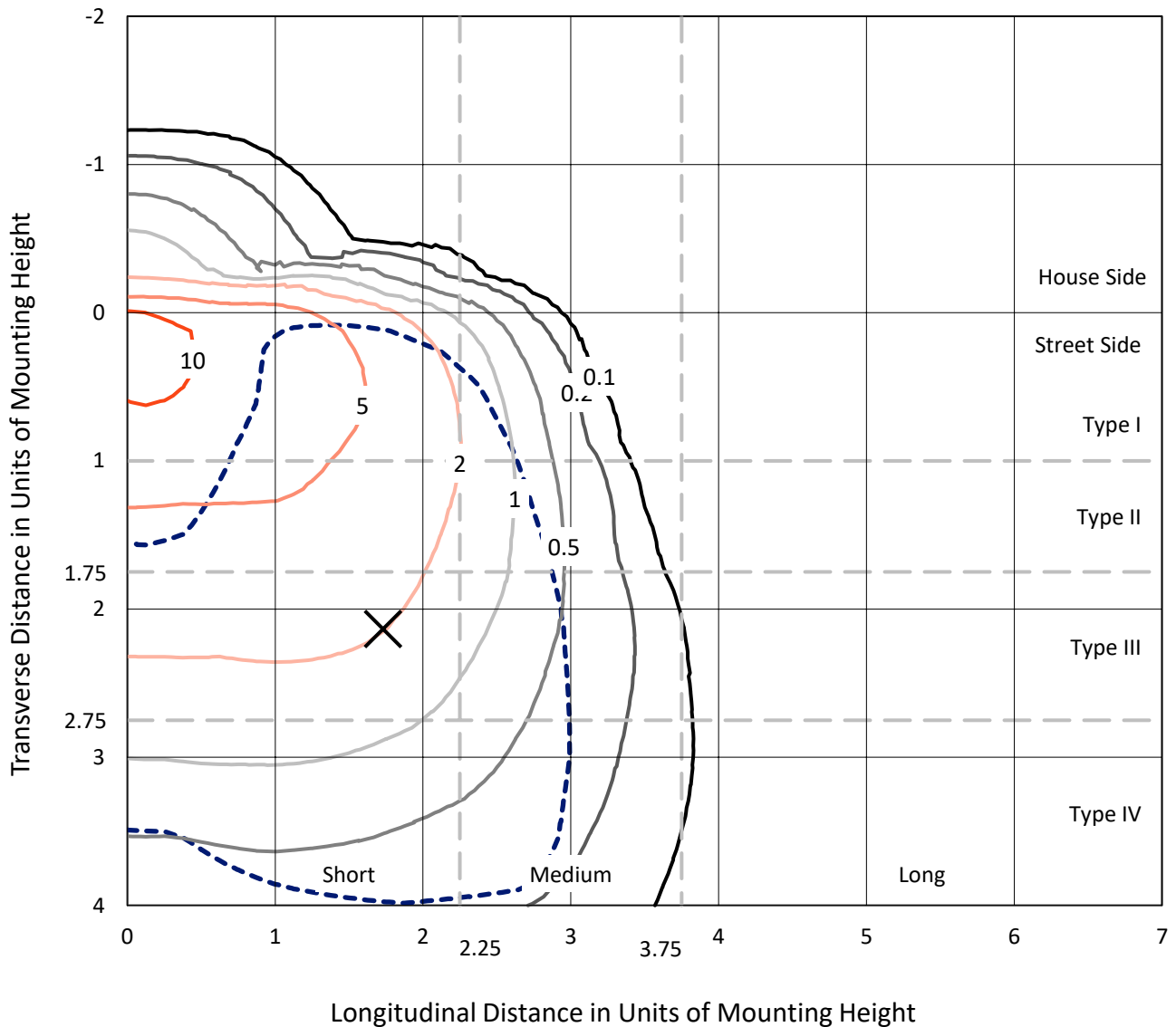
Input Watts (W): 364
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

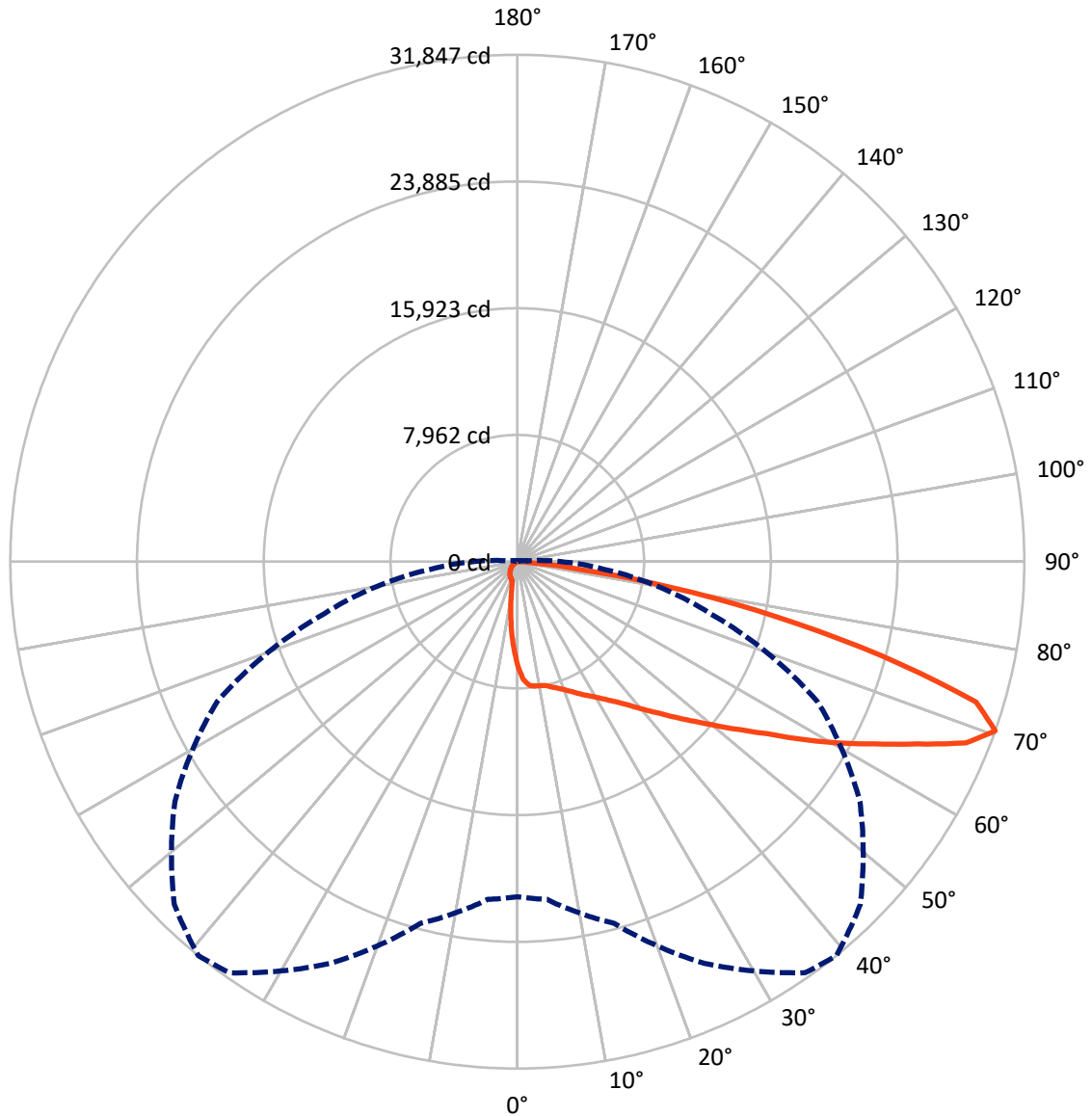
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 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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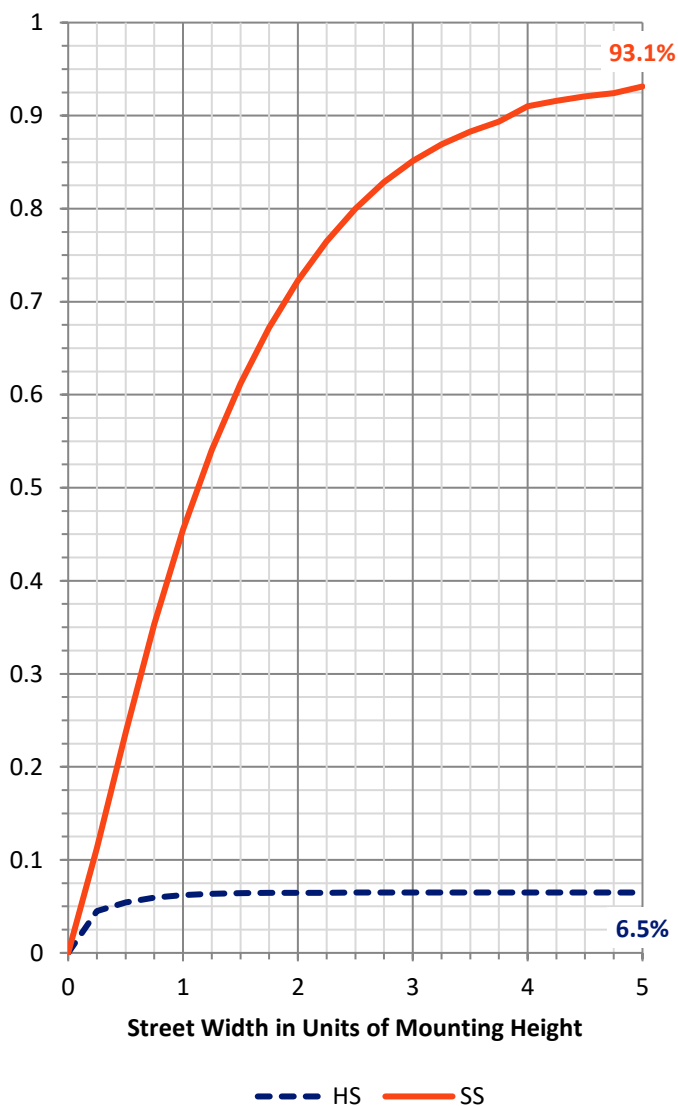
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2766.8	0.0	2766.8
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	39665.2	0.0	39665.2
	% Fixture	93.5	0.0	93.5
Total	Lumens	42432.0	0.0	42432.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	564.7	1.3
10°-20°	1467.5	3.5
20°-30°	2458.5	5.8
30°-40°	3812.8	9.0
40°-50°	6042.2	14.2
50°-60°	8857.0	20.9
60°-70°	11352.5	26.8
70°-80°	7133.6	16.8
80°-90°	743.2	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°	42432.0	100.0
0°-180°	42432.0	100.0

Coefficient of Utilization



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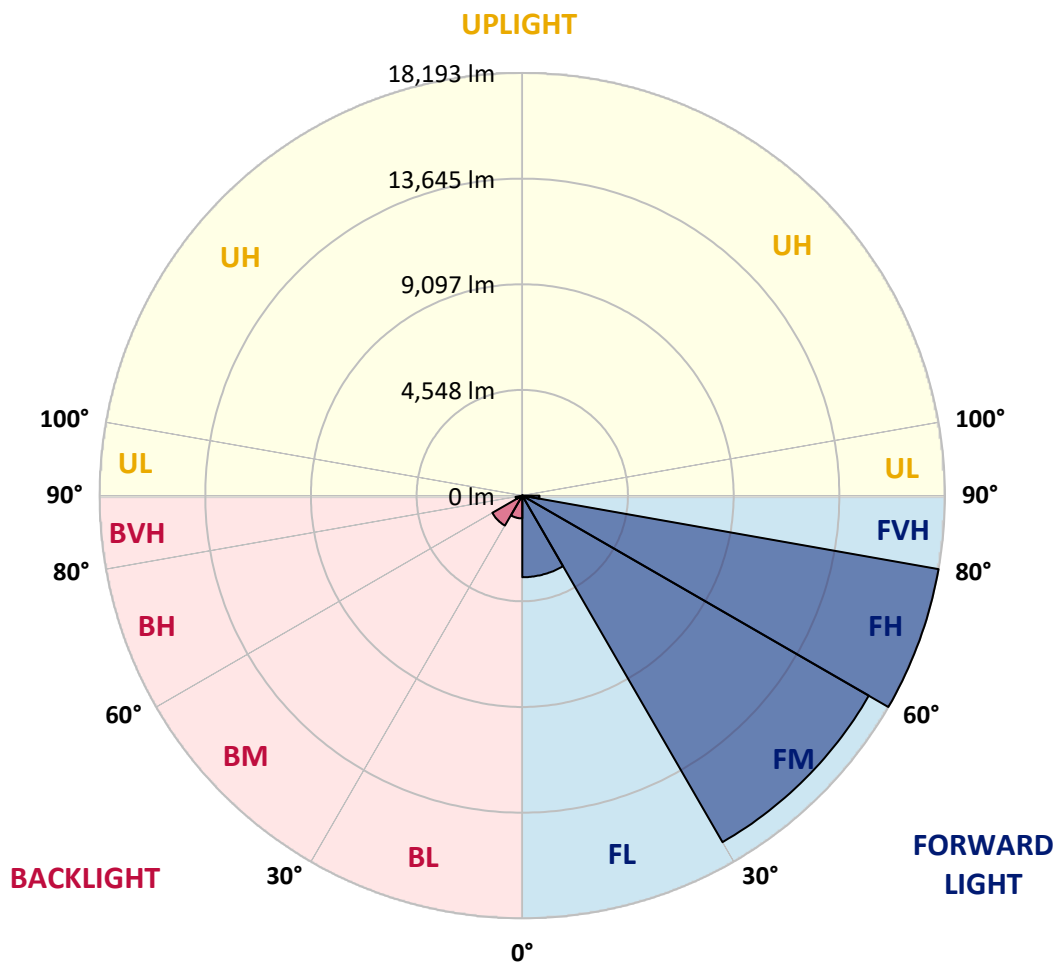
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3511.0	8.3			
FM	(30°-60°)	17223.1	40.6			
FH	(60°-80°)	18193.5	42.9			G5
FVH	(80°-90°)	737.7	1.7			G4/750
BL	(0°-30°)	979.7	2.3	B2/1000		
BM	(30°-60°)	1489.0	3.5	B2/2500		
BH	(60°-80°)	292.6	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°	6620.8	6620.8	6620.8	6620.8	6620.8	6620.8	6620.8	6620.8	6620.8	6620.8	6620.8
2.5°	7650.2	7624.5	7590.3	7550.4	7436.3	7416.4	7347.9	7202.5	7028.6	6886.0	6689.3
5°	8012.3	8026.6	8000.9	7929.6	7846.9	7798.5	7712.9	7487.7	7262.4	6974.4	6652.2
7.5°	8095.0	8123.5	8092.1	8023.7	7943.9	7892.6	7824.1	7630.2	7367.9	7040.0	6598.0
10°	8086.4	8120.7	8100.7	8038.0	7972.4	7923.9	7849.8	7695.8	7484.8	7139.8	6615.1
12.5°	8072.2	8117.8	8115.0	8083.6	8029.4	7992.3	7946.7	7809.9	7613.1	7285.2	6709.2
15°	8032.3	8089.3	8140.6	8166.3	8169.1	8169.1	8112.1	7966.7	7778.5	7476.3	6831.8
17.5°	8049.4	8115.0	8243.3	8317.4	8368.7	8363.0	8303.1	8146.3	7938.2	7673.0	6960.2
20°	8154.9	8243.3	8422.9	8571.2	8622.5	8605.4	8525.6	8343.1	8106.4	7841.2	7085.6
22.5°	8414.4	8494.2	8719.4	8893.4	8930.4	8884.8	8770.8	8522.7	8308.8	8023.7	7236.7
25°	8802.1	8896.2	9104.4	9235.5	9235.5	9209.9	9050.2	8759.4	8537.0	8277.5	7433.5
27.5°	9272.6	9352.4	9557.7	9674.6	9606.2	9532.1	9372.4	9021.7	8807.8	8596.8	7670.1
30°	9748.8	9800.1	10016.8	10068.1	9996.9	9902.8	9731.7	9381.0	9192.8	9030.2	8012.3
32.5°	10199.3	10310.5	10490.1	10478.7	10381.8	10336.2	10179.3	9805.8	9700.3	9683.2	8491.3
35°	10649.8	10735.4	10895.0	10934.9	10849.4	10840.9	10726.8	10450.2	10453.1	10564.3	9238.4
37.5°	11037.6	11114.6	11302.8	11391.2	11408.3	11451.0	11405.4	11222.9	11482.4	11787.5	10227.8
40°	11362.7	11471.0	11710.5	11864.5	12041.3	12198.1	12206.7	12246.6	12768.4	13293.0	11519.5
42.5°	11616.4	11767.5	12115.4	12400.5	12805.4	13005.0	13164.7	13384.3	14262.5	15046.6	13042.1
45°	11947.2	12121.1	12554.5	13002.2	13635.2	13963.1	14185.5	14772.9	16018.9	17088.2	14604.6
47.5°	12494.6	12585.9	13027.8	13680.8	14513.4	14981.0	15414.4	16304.1	17903.7	18861.7	15904.9
50°	13198.9	13258.8	13592.4	14499.1	15577.0	16192.8	16982.7	18029.1	19859.7	20333.0	16640.5
52.5°	13977.3	13997.3	14248.2	15400.2	16768.8	17544.4	18428.3	19720.0	21453.6	21382.3	17128.1
55°	14881.2	14852.7	15066.6	16378.2	18180.2	19067.0	20096.4	21450.7	22836.5	22126.5	17407.5
57.5°	15916.3	15839.3	16047.4	17675.6	19988.0	21048.7	22095.2	22944.9	23908.6	22751.0	17541.5
60°	16999.8	16845.8	17093.9	19132.6	22118.0	23124.5	23994.2	24222.3	25037.8	23247.1	17310.6
62.5°	17863.7	17866.6	18328.5	20683.7	24307.8	25188.9	25650.8	25856.1	26010.1	23138.7	16095.9
65°	19212.4	19258.1	19996.6	22836.5	26842.7	27606.8	27923.3	27256.1	26052.8	21792.9	14271.0
67.5°	20603.9	20749.3	22100.9	25801.9	29771.0	30386.9	29979.2	27527.0	24889.5	18722.0	10820.9
70°	21057.3	21296.8	23523.7	27843.5	31527.4	31846.8	30466.7	26263.8	20806.3	12517.5	5446.1
72.5°	19295.1	19682.9	22705.3	27099.3	30406.9	30130.3	27259.0	22026.7	13227.4	4753.2	1662.3
75°	13606.7	13777.7	18870.3	22480.1	24456.1	23672.0	20735.1	14199.8	5440.4	1334.4	570.3
77.5°	7025.7	6943.1	11222.9	14915.4	17441.7	16629.1	13578.2	7350.8	2061.5	556.0	353.6
80°	3632.6	3692.5	4855.9	7815.6	10647.0	9797.3	7239.6	3407.4	1097.8	307.9	270.9
82.5°	2035.9	1910.4	2791.5	3413.1	4978.5	3903.5	2777.2	2412.2	479.0	185.3	256.6
85°	370.7	387.8	1531.2	1844.8	1727.9	1097.8	895.3	1611.0	139.7	102.6	179.6
87.5°	5.7	5.7	296.5	530.4	336.5	154.0	282.3	231.0	28.5	39.9	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°	6620.8	6620.8	6620.8	6620.8	6620.8	6620.8	6620.8	6620.8	6620.8	6620.8	6620.8
2.5°	6589.5	6481.1	6278.7	6079.1	5825.3	5617.2	5477.5	5332.0	5183.8	5195.2	5229.4
5°	6475.4	6287.2	5888.0	5466.0	5061.2	4696.2	4336.9	4014.7	3883.5	3763.8	3769.5
7.5°	6361.4	6096.2	5511.7	4850.2	4237.1	3615.5	3165.0	2794.3	2597.6	2449.3	2406.5
10°	6310.0	5959.3	5166.7	4257.1	3387.4	2708.8	2130.0	1827.7	1593.9	1519.8	1539.7
12.5°	6332.9	5890.9	4855.9	3721.0	2686.0	1887.6	1482.7	1328.7	1277.4	1268.9	1263.2
15°	6375.6	5842.4	4550.8	3127.9	1973.1	1402.9	1246.0	1217.5	1211.8	1206.1	1209.0
17.5°	6432.7	5799.7	4225.7	2571.9	1514.1	1226.1	1180.5	1166.2	1163.4	1163.4	1163.4
20°	6489.7	5751.2	3863.6	2075.8	1263.2	1157.7	1129.1	1120.6	1117.7	1117.7	1114.9
22.5°	6555.3	5708.4	3495.8	1631.0	1163.4	1109.2	1083.5	1077.8	1075.0	1072.1	1072.1
25°	6649.4	5654.2	3105.1	1334.4	1100.6	1063.6	1037.9	1032.2	1029.3	1017.9	1020.8
27.5°	6774.8	5614.3	2703.1	1151.9	1043.6	1006.5	989.4	980.9	975.2	966.6	969.5
30°	6945.9	5580.1	2275.4	1052.2	978.0	946.7	929.5	923.8	918.1	909.6	909.6
32.5°	7242.4	5594.4	1824.9	972.3	918.1	881.1	864.0	858.3	852.6	844.0	844.0
35°	7687.3	5677.0	1459.9	903.9	846.9	809.8	792.7	792.7	784.1	772.7	769.9
37.5°	8414.4	5888.0	1171.9	838.3	778.4	744.2	724.2	718.5	710.0	692.9	690.0
40°	9272.6	6216.0	986.6	772.7	715.7	681.5	664.4	647.3	624.4	607.3	604.5
42.5°	10350.4	6552.4	855.4	707.1	655.8	624.4	604.5	576.0	541.8	518.9	516.1
45°	11473.9	6860.4	767.0	647.3	598.8	573.1	550.3	504.7	461.9	433.4	430.6
47.5°	12312.2	6917.4	695.7	590.2	550.3	524.6	493.3	436.3	379.2	353.6	345.0
50°	12708.5	6640.8	621.6	533.2	501.8	473.3	433.4	367.8	305.1	273.7	268.0
52.5°	12848.2	6161.8	561.7	481.9	453.4	419.1	370.7	296.5	239.5	208.1	205.3
55°	12791.2	5557.3	507.5	433.4	396.3	356.4	307.9	236.7	176.8	151.1	145.4
57.5°	12491.8	4787.4	453.4	384.9	339.3	299.4	245.2	176.8	119.8	96.9	94.1
60°	11684.9	3738.1	399.2	330.8	288.0	245.2	193.9	125.5	74.1	54.2	54.2
62.5°	10321.9	2774.4	347.9	276.6	242.4	196.7	136.9	79.8	39.9	28.5	25.7
65°	8625.4	2047.3	290.8	233.8	202.4	154.0	96.9	48.5	20.0	8.6	5.7
67.5°	6019.2	1263.2	242.4	191.0	165.4	111.2	59.9	20.0	8.6	0.0	0.0
70°	2734.4	601.6	185.3	145.4	125.5	79.8	31.4	11.4	5.7	0.0	0.0
72.5°	849.7	316.5	131.2	105.5	85.5	51.3	17.1	8.6	5.7	0.0	0.0
75°	393.5	202.4	82.7	57.0	48.5	25.7	11.4	5.7	2.9	0.0	0.0
77.5°	293.7	156.8	48.5	31.4	25.7	17.1	8.6	5.7	2.9	0.0	0.0
80°	256.6	79.8	28.5	20.0	14.3	11.4	5.7	2.9	0.0	0.0	0.0
82.5°	231.0	39.9	17.1	11.4	8.6	5.7	2.9	2.9	0.0	0.0	0.0
85°	125.5	22.8	11.4	8.6	5.7	2.9	2.9	0.0	0.0	0.0	0.0
87.5°	22.8	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)