

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: P457463

Luminaire Tested: **GALN-SA8D-740-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457463
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8D-740-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48908 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

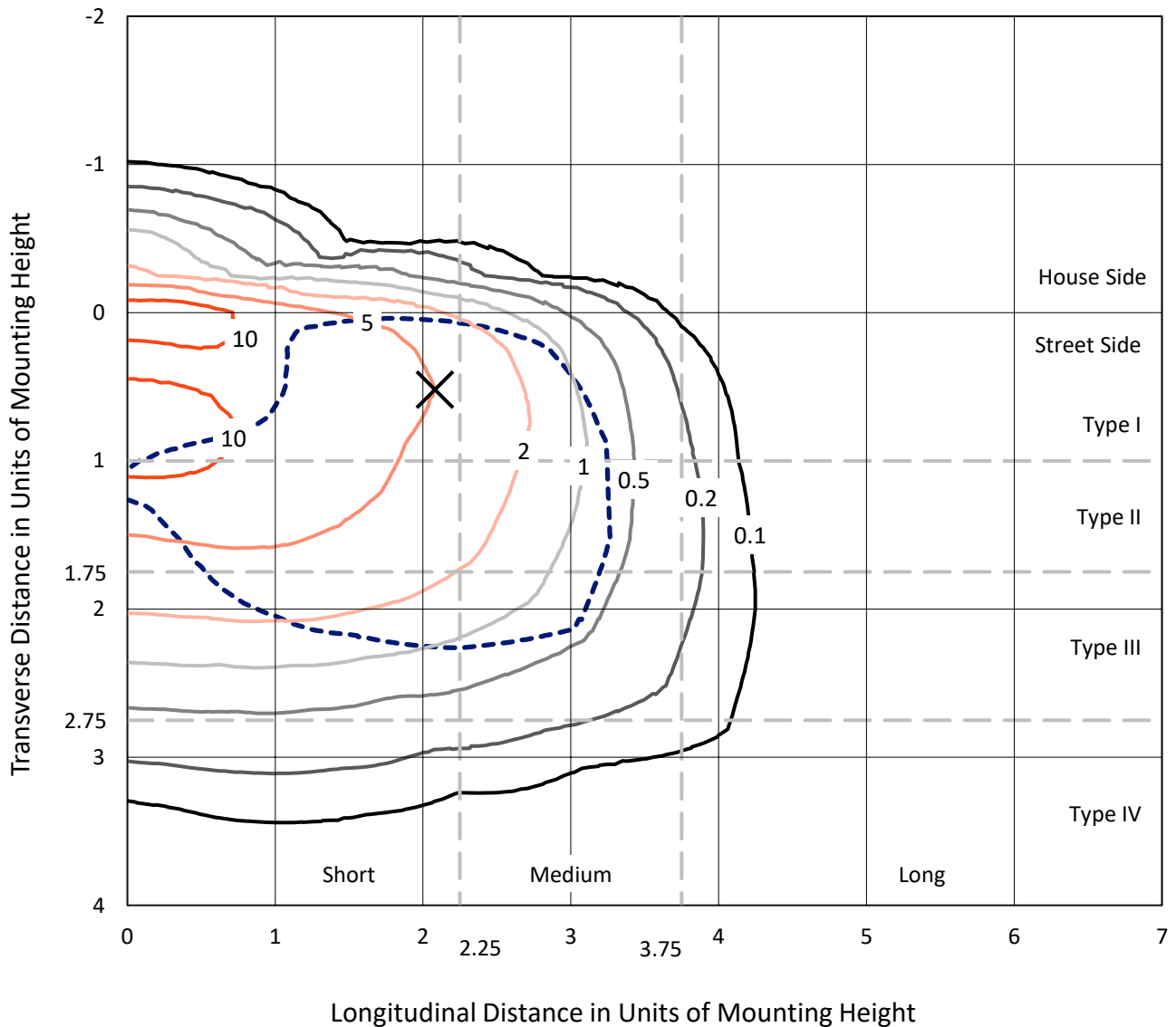
Input Watts (W): 493
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

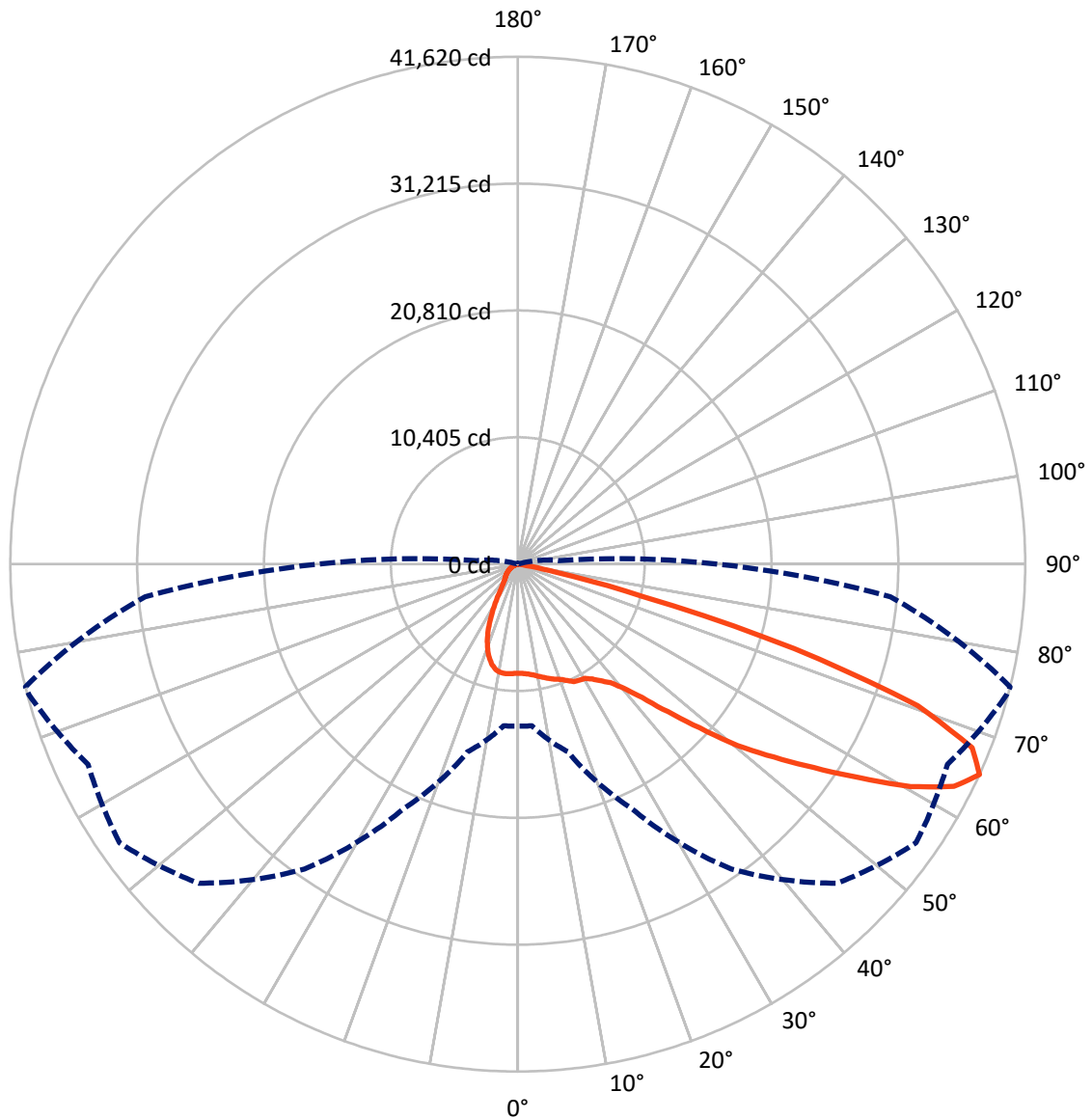
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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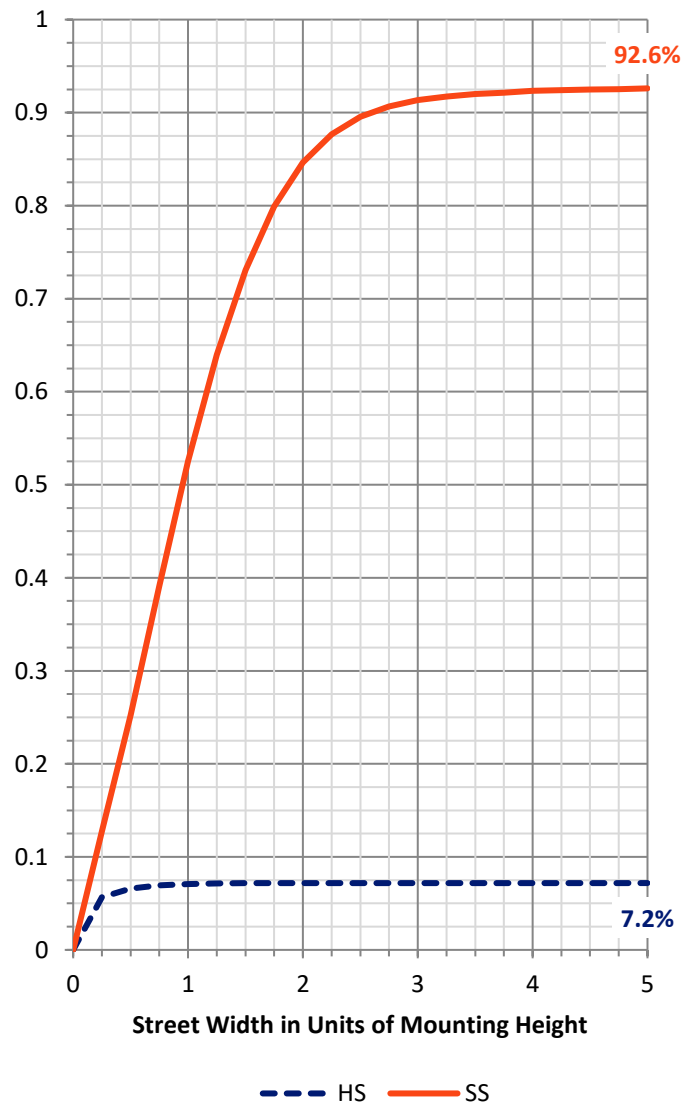
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3532.1	0.0	3532.1
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	45375.9	0.0	45375.9
	% Fixture	92.8	0.0	92.8
Total	Lumens	48908.0	0.0	48908.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	737.0	1.5
10°-20°	1641.0	3.4
20°-30°	2644.3	5.4
30°-40°	4597.8	9.4
40°-50°	7597.7	15.5
50°-60°	11736.8	24.0
60°-70°	14332.3	29.3
70°-80°	5439.5	11.1
80°-90°	181.5	0.4
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°	48908.0	100.0
0°-180°	48908.0	100.0



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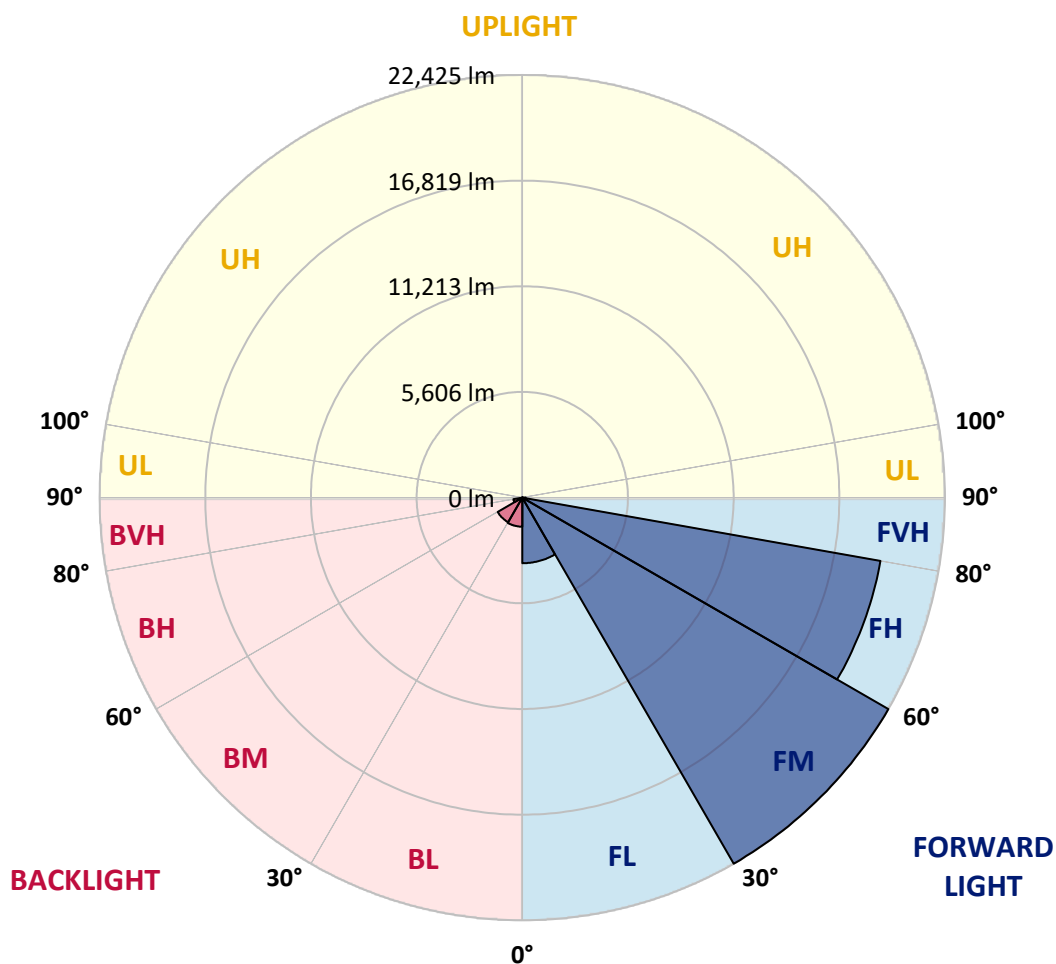
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3479.2	7.1			
FM	(30°-60°)	22425.1	45.9			
FH	(60°-80°)	19292.5	39.4			G5
FVH	(80°-90°)	179.0	0.4			G2/225
BL	(0°-30°)	1543.1	3.2	B3/2500		
BM	(30°-60°)	1507.3	3.1	B2/2500		
BH	(60°-80°)	479.3	1.0	B1/500		G1/500
BVH	(80°-90°)	2.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	8946.8	8946.8	8946.8	8946.8	8946.8	8946.8	8946.8	8946.8	8946.8	8946.8	8946.8
2.5°	8549.7	8553.2	8573.9	8625.7	8705.1	8770.7	8826.0	8915.8	8977.9	8984.8	9005.5
5°	7959.3	7917.8	7959.3	8093.9	8214.8	8397.8	8622.2	8846.7	9047.0	9060.8	9157.5
7.5°	7296.3	7330.8	7396.4	7534.5	7762.4	8042.1	8366.7	8767.3	9147.1	9181.6	9371.6
10°	6622.9	6698.9	6805.9	7016.6	7334.3	7696.8	8138.8	8712.0	9306.0	9354.3	9682.3
12.5°	6001.4	6035.9	6167.1	6450.3	6843.9	7355.0	7966.2	8680.9	9482.1	9540.8	10013.8
15°	5524.9	5569.8	5683.7	5939.2	6377.8	7033.8	7824.6	8670.6	9654.7	9737.6	10345.3
17.5°	5435.1	5462.7	5511.1	5683.7	6067.0	6778.3	7696.8	8667.1	9820.5	9920.6	10652.6
20°	5804.6	5780.4	5732.1	5714.8	5925.4	6581.5	7603.6	8694.8	9979.3	10093.2	10977.2
22.5°	6730.0	6761.1	6477.9	6143.0	6073.9	6550.4	7589.8	8826.0	10231.4	10366.0	11339.8
25°	8694.8	8456.5	8014.5	7213.4	6609.1	6740.3	7745.2	9136.8	10524.9	10673.4	11667.8
27.5°	10866.7	10794.2	10107.1	8788.0	7662.3	7140.9	8021.4	9375.0	10621.6	10773.5	11854.3
30°	13000.7	13087.0	12299.7	10842.6	9192.0	7883.3	8280.4	9464.8	10707.9	10866.7	12092.6
32.5°	14979.3	15082.9	14392.3	12948.9	10994.5	9167.8	8725.8	9813.5	11070.5	11232.7	12489.7
35°	16536.6	16550.4	16029.0	14879.2	12962.7	10728.6	9689.2	10424.7	11560.8	11750.7	12910.9
37.5°	17966.2	17945.5	17334.3	16343.3	14602.9	12279.0	10901.3	11129.2	12120.2	12317.0	13518.7
40°	19026.3	19040.1	18843.3	17910.9	16132.6	13712.0	11861.2	11788.7	13059.4	13366.7	14402.6
42.5°	19734.1	19861.9	19958.6	19485.5	18056.0	15476.5	13335.7	13201.0	14689.2	14944.8	15652.6
45°	20307.3	20535.2	21018.7	20994.5	19903.3	17641.6	15359.1	15082.9	16999.3	17272.1	17244.5
47.5°	20725.2	20956.5	21757.6	22241.0	21640.2	19741.0	17904.0	17665.8	19758.3	20055.3	19002.1
50°	20939.3	21215.5	22237.6	23173.4	22997.3	21764.5	20804.6	20818.4	23090.5	23377.1	21039.4
52.5°	20438.6	20797.7	22493.1	24178.2	24520.1	23701.7	23522.1	23977.9	26056.7	26301.8	22879.9
55°	18839.8	19292.2	22144.4	25034.6	26284.6	25987.6	26609.1	27303.2	29299.1	29457.9	24768.7
57.5°	17828.1	18308.0	21115.4	25763.2	28404.7	28860.5	29844.6	30352.2	32645.1	33049.1	26937.2
60°	16975.2	17351.5	20269.4	25918.5	30559.4	32375.7	33332.2	33857.1	36774.9	37037.3	29323.2
62.5°	15556.0	15987.6	18839.8	24834.3	31643.7	35190.0	37172.0	36937.2	39969.0	40152.0	30787.3
65°	13273.5	13311.5	15939.2	22109.8	30524.9	37016.6	39868.8	38884.7	41495.2	41619.5	30673.4
67.5°	9906.8	10272.8	12261.8	17379.2	25783.9	35455.8	40742.5	38936.5	40531.8	40186.5	28239.0
70°	6381.2	6660.9	8311.5	12051.1	18591.2	29589.1	37845.3	36267.3	35573.2	34806.7	23114.7
72.5°	2945.4	3304.6	4937.9	6885.4	11025.6	21077.4	30721.7	29464.8	25604.3	23712.0	14692.7
75°	1284.5	1374.3	2437.8	3632.6	5169.2	11146.4	20255.5	18290.8	11564.2	10562.9	5880.5
77.5°	783.8	842.5	1277.6	1947.5	2030.4	4247.2	10911.6	7980.0	3573.9	3152.6	1595.3
80°	531.8	597.4	928.9	1018.6	694.1	1184.4	4095.3	2130.5	721.7	690.6	341.9
82.5°	259.0	328.0	687.2	569.8	300.4	379.8	1191.3	455.8	210.6	196.8	120.9
85°	38.0	65.6	386.7	372.9	134.7	89.8	210.6	114.0	72.5	69.1	55.2
87.5°	0.0	0.0	131.2	58.7	13.8	13.8	24.2	24.2	27.6	24.2	27.6
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°	8946.8	8946.8	8946.8	8946.8	8946.8	8946.8	8946.8	8946.8	8946.8	8946.8	8946.8
2.5°	9015.9	9033.2	8967.6	8874.3	8774.2	8674.0	8532.5	8404.7	8328.7	8373.6	8263.1
5°	9178.2	9164.4	8991.7	8708.6	8332.2	7879.8	7430.9	7047.7	6923.4	6736.9	6716.2
7.5°	9402.6	9364.7	8998.6	8349.5	7500.0	6650.6	5821.8	5272.8	4958.6	4692.7	4699.6
10°	9716.9	9606.4	8919.2	7717.6	6319.1	5038.0	3981.4	3256.2	2942.0	2841.9	2762.4
12.5°	10041.4	9827.4	8698.2	6864.6	4920.6	3442.7	2420.6	1978.6	1785.2	1723.1	1716.2
15°	10331.5	9993.1	8311.5	5839.1	3577.4	2199.6	1650.6	1505.5	1481.4	1484.8	1481.4
17.5°	10618.1	10124.3	7776.3	4751.4	2430.9	1578.0	1419.2	1384.7	1395.0	1408.8	1405.4
20°	10856.4	10151.9	7092.6	3625.7	1719.6	1384.7	1332.9	1326.0	1336.3	1346.7	1346.7
22.5°	11115.3	10172.7	6281.1	2510.4	1405.4	1288.0	1260.4	1260.4	1274.2	1288.0	1291.4
25°	11308.7	10058.7	5310.8	1802.5	1239.6	1194.8	1180.9	1184.4	1198.2	1205.1	1201.7
27.5°	11339.8	9737.6	4281.8	1381.2	1125.7	1080.8	1067.0	1080.8	1063.5	1073.9	1067.0
30°	11367.4	9330.1	3239.0	1163.7	1022.1	953.0	932.3	911.6	897.8	880.5	877.1
32.5°	11453.7	8850.1	2365.3	1046.3	925.4	849.4	801.1	742.4	697.5	683.7	680.2
35°	11491.7	8273.5	1736.9	953.0	839.1	756.2	669.9	587.0	521.4	497.2	514.5
37.5°	11636.8	7714.1	1346.7	884.0	763.1	659.5	549.0	445.4	383.3	369.5	376.4
40°	11933.7	7106.4	1129.1	825.3	697.5	569.8	435.1	334.9	293.5	279.7	276.2
42.5°	12410.2	6502.1	1004.8	770.0	631.9	480.0	341.9	262.4	227.9	217.5	217.5
45°	12990.3	5922.0	918.5	711.3	562.8	386.7	269.3	210.6	189.9	183.0	183.0
47.5°	13753.5	5414.4	846.0	652.6	486.9	307.3	217.5	183.0	169.2	172.7	176.1
50°	14527.0	5038.0	766.6	587.0	400.6	252.1	186.5	162.3	158.8	162.3	162.3
52.5°	15110.5	4817.0	659.5	497.2	314.2	210.6	165.7	151.9	148.5	141.6	141.6
55°	15897.8	4768.7	524.9	404.0	248.6	176.1	148.5	138.1	127.8	120.9	117.4
57.5°	16909.6	4823.9	404.0	314.2	193.4	145.0	131.2	114.0	100.1	86.3	86.3
60°	17538.0	4699.6	314.2	241.7	141.6	117.4	100.1	82.9	65.6	55.2	51.8
62.5°	17337.7	4174.7	248.6	179.6	100.1	86.3	65.6	55.2	38.0	27.6	24.2
65°	16305.3	3370.2	200.3	124.3	72.5	51.8	34.5	34.5	17.3	3.5	0.0
67.5°	14271.4	2496.5	158.8	82.9	41.4	24.2	17.3	10.4	0.0	0.0	0.0
70°	11616.0	1802.5	124.3	51.8	24.2	17.3	6.9	3.5	0.0	0.0	0.0
72.5°	7375.7	1032.5	96.7	31.1	17.3	6.9	0.0	0.0	0.0	0.0	0.0
75°	2852.2	404.0	65.6	20.7	6.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	808.0	189.9	38.0	10.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	210.6	82.9	20.7	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	100.1	34.5	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	58.7	13.8	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	27.6	3.5	0.0	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)