

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: P457434

Luminaire Tested: **GALN-SA8D-730-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457434
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-730-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 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: 44542 lumens
Efficiency: N/A
Efficacy: 90.3 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

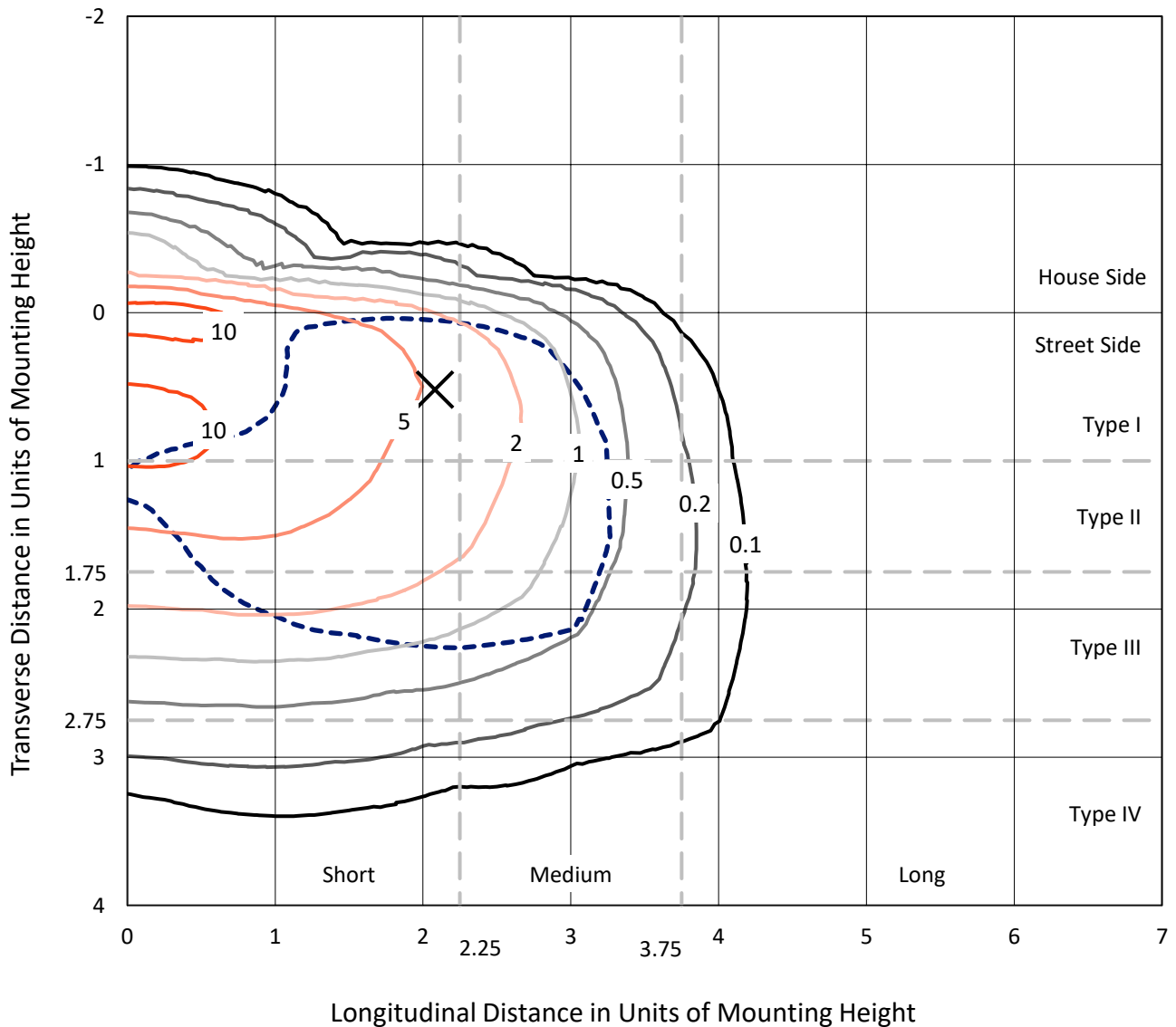
Input Watts (W): 493
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P457434
 CATALOG NUMBER: GALN-SA8D-730-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

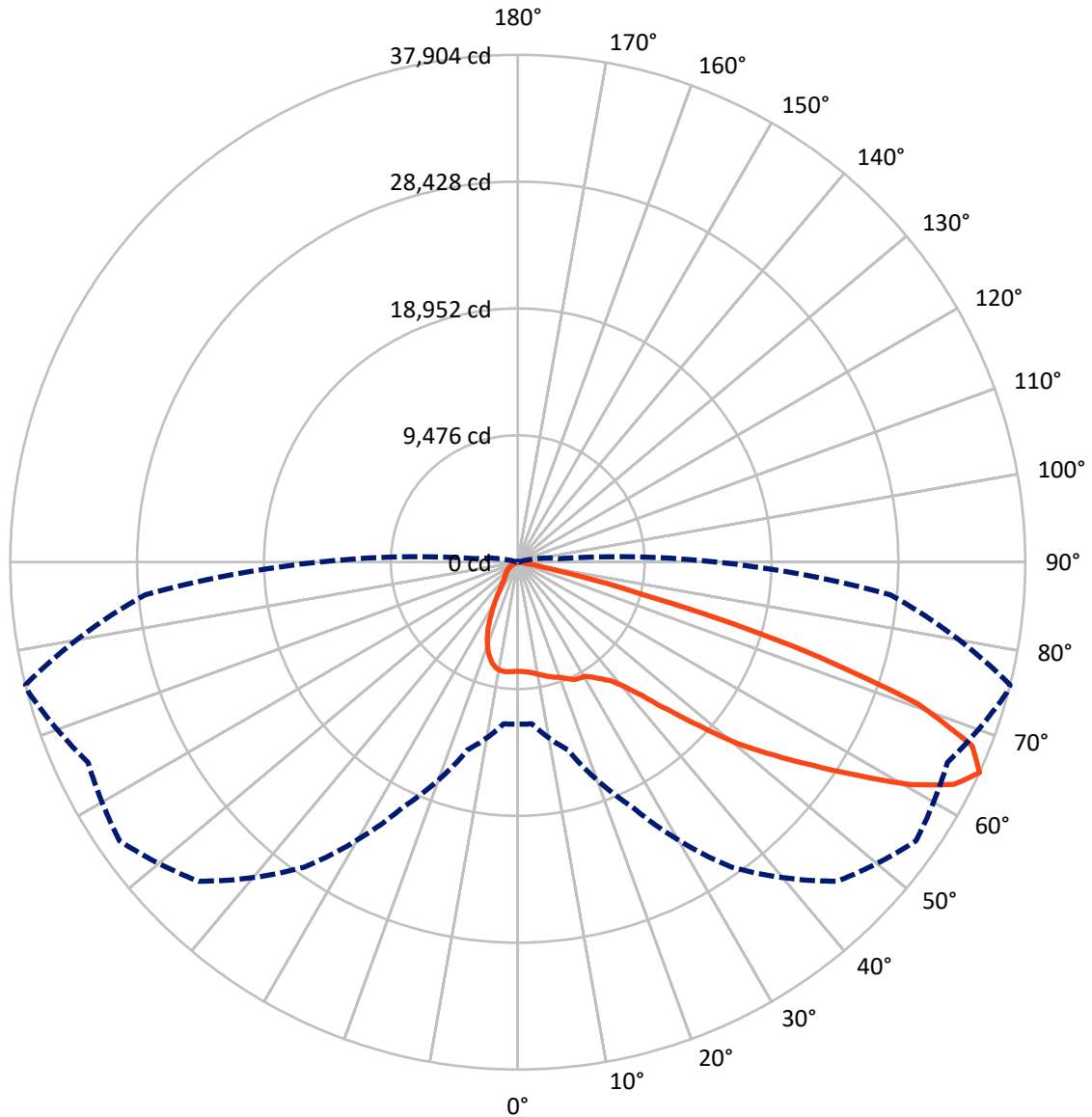
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 fc
 Type III - Short - N/A

REPORT NUMBER: P457434
CATALOG NUMBER: GALN-SA8D-730-U-T3R-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P457434

CATALOG NUMBER: GALN-SA8D-730-U-T3R-HSS

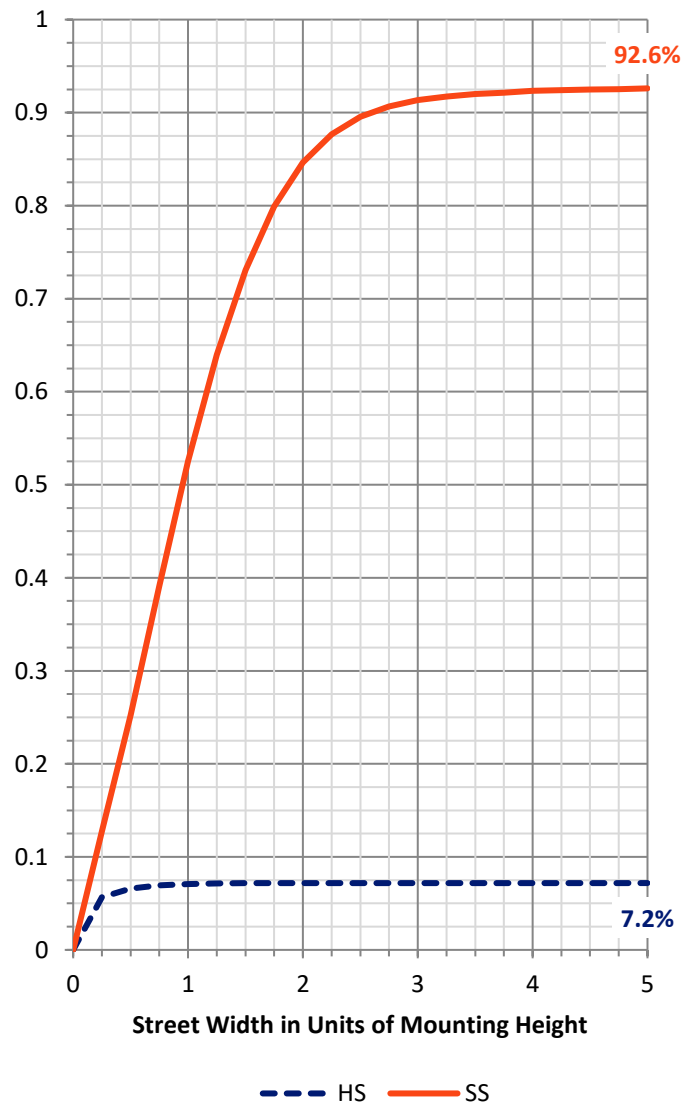
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3216.8	0.0	3216.8
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	41325.2	0.0	41325.2
	% Fixture	92.8	0.0	92.8
Total	Lumens	44542.0	0.0	44542.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	671.2	1.5
10°-20°	1494.5	3.4
20°-30°	2408.3	5.4
30°-40°	4187.4	9.4
40°-50°	6919.4	15.5
50°-60°	10689.1	24.0
60°-70°	13052.9	29.3
70°-80°	4953.9	11.1
80°-90°	165.3	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°	44542.0	100.0
0°-180°	44542.0	100.0



REPORT NUMBER: P457434

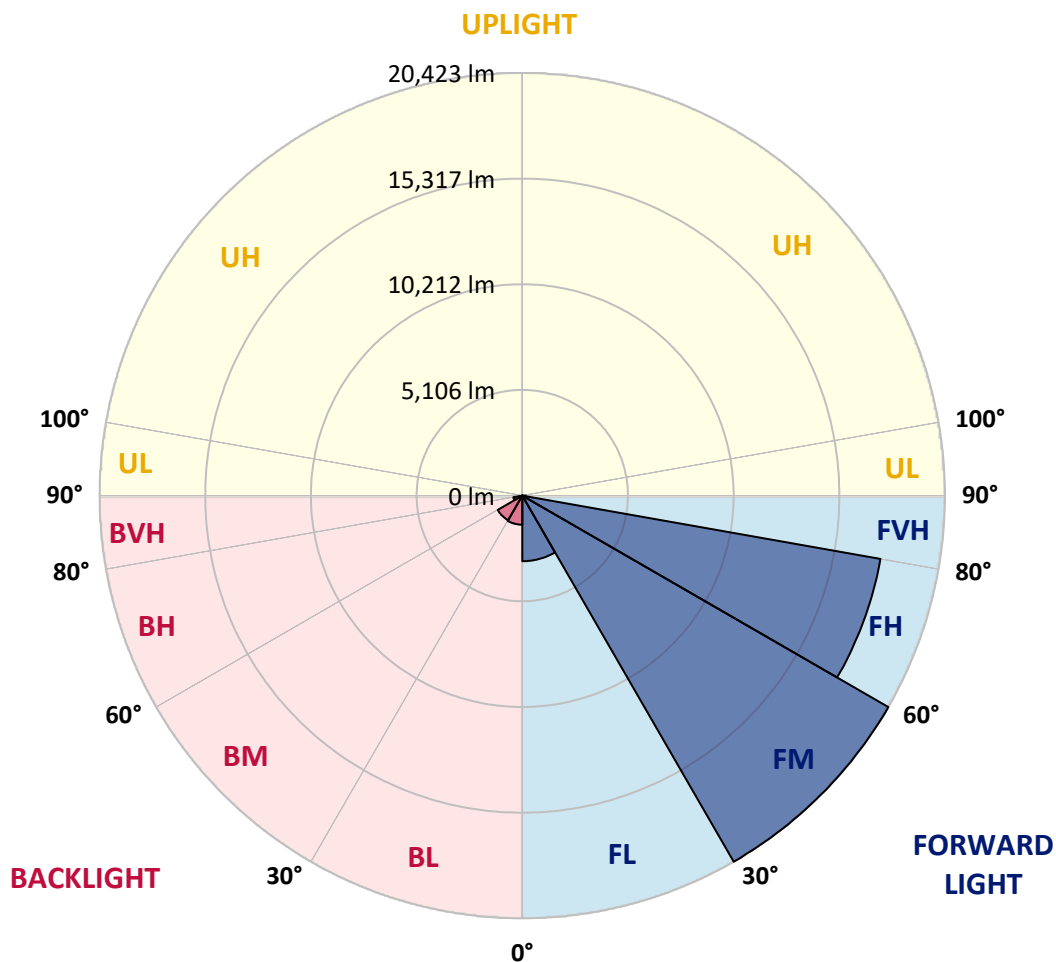
CATALOG NUMBER: GALN-SA8D-730-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3168.6	7.1			
FM (30°-60°)	20423.2	45.9			
FH (60°-80°)	17570.3	39.4			G5
FVH (80°-90°)	163.1	0.4			G2/225
BL (0°-30°)	1405.4	3.2	B3/2500		
BM (30°-60°)	1372.7	3.1	B2/2500		
BH (60°-80°)	436.5	1.0	B1/500		G1/500
BVH (80°-90°)	2.3	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





REPORT NUMBER: P457434

CATALOG NUMBER: GALN-SA8D-730-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	8148.2	8148.2	8148.2	8148.2	8148.2	8148.2	8148.2	8148.2	8148.2	8148.2	8148.2
2.5°	7786.5	7789.6	7808.5	7855.7	7928.0	7987.8	8038.1	8119.9	8176.5	8182.7	8201.6
5°	7248.7	7211.0	7248.7	7371.4	7481.5	7648.1	7852.5	8057.0	8239.4	8251.9	8340.0
7.5°	6644.9	6676.4	6736.1	6861.9	7069.5	7324.2	7619.8	7984.6	8330.6	8362.0	8535.0
10°	6031.7	6100.9	6198.4	6390.2	6679.5	7009.7	7412.3	7934.3	8475.2	8519.2	8818.0
12.5°	5465.6	5497.1	5616.6	5874.5	6233.0	6698.4	7255.0	7906.0	8635.6	8689.1	9119.9
15°	5031.7	5072.5	5176.3	5409.0	5808.4	6405.9	7126.1	7896.6	8792.8	8868.3	9421.8
17.5°	4949.9	4975.1	5019.1	5176.3	5525.4	6173.2	7009.7	7893.4	8943.8	9035.0	9701.7
20°	5286.4	5264.4	5220.4	5204.6	5396.5	5994.0	6924.8	7918.6	9088.4	9192.2	9997.3
22.5°	6129.2	6157.5	5899.6	5594.6	5531.7	5965.7	6912.3	8038.1	9318.0	9440.7	10327.5
25°	7918.6	7701.6	7299.1	6569.5	6019.1	6138.6	7053.8	8321.1	9585.3	9720.5	10626.2
27.5°	9896.7	9830.6	9204.8	8003.5	6978.3	6503.4	7305.3	8538.1	9673.4	9811.7	10796.1
30°	11840.1	11918.8	11201.7	9874.6	8371.4	7179.6	7541.2	8619.9	9752.0	9896.7	11013.1
32.5°	13642.1	13736.4	13107.5	11793.0	10013.0	8349.4	7946.9	8937.5	10082.2	10230.0	11374.7
35°	15060.4	15073.0	14598.1	13550.9	11805.5	9770.9	8824.3	9494.1	10528.8	10701.7	11758.4
37.5°	16362.3	16343.5	15786.9	14884.3	13299.3	11182.9	9928.1	10135.7	11038.2	11217.5	12311.9
40°	17327.8	17340.4	17161.1	16312.0	14692.5	12488.0	10802.4	10736.3	11893.6	12173.5	13116.9
42.5°	17972.5	18088.8	18176.9	17746.1	16444.1	14095.0	12145.2	12022.5	13377.9	13610.7	14255.3
45°	18494.5	18702.1	19142.3	19120.3	18126.6	16066.7	13988.0	13736.4	15481.8	15730.2	15705.1
47.5°	18875.0	19085.7	19815.3	20255.6	19708.4	17978.8	16305.7	16088.8	17994.5	18264.9	17305.8
50°	19070.0	19321.6	20252.5	21104.7	20944.3	19821.6	18947.4	18959.9	21029.2	21290.2	19161.2
52.5°	18614.0	18941.1	20485.2	22019.8	22331.2	21585.8	21422.3	21837.4	23730.6	23953.9	20837.4
55°	17158.0	17569.9	20167.5	22799.7	23938.1	23667.7	24233.8	24865.9	26683.6	26828.2	22557.6
57.5°	16236.6	16673.7	19230.4	23463.3	25869.1	26284.2	27180.4	27642.7	29730.9	30098.8	24532.5
60°	15459.8	15802.6	18459.9	23604.8	27831.4	29485.6	30356.7	30834.7	33492.0	33731.0	26705.6
62.5°	14167.3	14560.4	17158.0	22617.3	28818.9	32048.6	33853.7	33639.8	36401.0	36567.6	28039.0
65°	12088.6	12123.2	14516.4	20136.1	27800.0	33712.2	36309.8	35413.5	37791.0	37904.2	27935.2
67.5°	9022.4	9355.8	11167.2	15827.7	23482.2	32290.7	37105.4	35460.7	36913.6	36599.1	25718.1
70°	5811.6	6066.3	7569.5	10975.3	16931.6	26947.7	34466.9	33029.7	32397.6	31699.5	21051.2
72.5°	2682.5	3009.6	4497.1	6270.7	10041.3	19195.8	27979.2	26834.5	23318.6	21595.3	13381.1
75°	1169.9	1251.6	2220.2	3308.3	4707.8	10151.4	18447.3	16658.0	10531.9	9619.9	5355.6
77.5°	713.9	767.3	1163.6	1773.7	1849.1	3868.1	9937.5	7267.6	3254.9	2871.2	1452.9
80°	484.3	544.0	845.9	927.7	632.1	1078.7	3729.7	1940.3	657.3	629.0	311.3
82.5°	235.9	298.8	625.8	518.9	273.6	345.9	1085.0	415.1	191.8	179.3	110.1
85°	34.6	59.8	352.2	339.6	122.6	81.8	191.8	103.8	66.0	62.9	50.3
87.5°	0.0	0.0	119.5	53.5	12.6	12.6	22.0	22.0	25.2	22.0	25.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P457434

CATALOG NUMBER: GALN-SA8D-730-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8148.2	8148.2	8148.2	8148.2	8148.2	8148.2	8148.2	8148.2	8148.2	8148.2	8148.2
2.5°	8211.0	8226.8	8167.0	8082.1	7990.9	7899.7	7770.8	7654.4	7585.2	7626.1	7525.5
5°	8358.9	8346.3	8189.0	7931.2	7588.4	7176.4	6767.6	6418.5	6305.3	6135.5	6116.6
7.5°	8563.3	8528.7	8195.3	7604.1	6830.5	6056.9	5302.1	4802.1	4515.9	4273.8	4280.1
10°	8849.4	8748.8	8123.0	7028.6	5755.0	4588.2	3625.9	2965.5	2679.4	2588.2	2515.8
12.5°	9145.1	8950.1	7921.7	6251.8	4481.3	3135.4	2204.5	1802.0	1625.9	1569.3	1563.0
15°	9409.2	9101.0	7569.5	5317.8	3258.0	2003.2	1503.2	1371.1	1349.1	1352.3	1349.1
17.5°	9670.2	9220.5	7082.1	4327.2	2213.9	1437.2	1292.5	1261.1	1270.5	1283.1	1279.9
20°	9887.2	9245.7	6459.4	3302.0	1566.1	1261.1	1213.9	1207.6	1217.0	1226.5	1226.5
22.5°	10123.1	9264.6	5720.4	2286.3	1279.9	1173.0	1147.8	1147.8	1160.4	1173.0	1176.2
25°	10299.2	9160.8	4836.7	1641.6	1129.0	1088.1	1075.5	1078.7	1091.2	1097.5	1094.4
27.5°	10327.5	8868.3	3899.5	1257.9	1025.2	984.3	971.7	984.3	968.6	978.0	971.7
30°	10352.7	8497.2	2949.8	1059.8	930.9	868.0	849.1	830.2	817.6	801.9	798.8
32.5°	10431.3	8060.1	2154.2	952.9	842.8	773.6	729.6	676.1	635.2	622.7	619.5
35°	10465.9	7534.9	1581.8	868.0	764.2	688.7	610.1	534.6	474.9	452.8	468.6
37.5°	10597.9	7025.5	1226.5	805.1	695.0	600.7	500.0	405.7	349.1	336.5	342.8
40°	10868.4	6472.0	1028.3	751.6	635.2	518.9	396.2	305.0	267.3	254.7	251.6
42.5°	11302.4	5921.6	915.1	701.3	575.5	437.1	311.3	239.0	207.6	198.1	198.1
45°	11830.7	5393.3	836.5	647.8	512.6	352.2	245.3	191.8	173.0	166.7	166.7
47.5°	12525.7	4931.0	770.5	594.4	443.4	279.9	198.1	166.7	154.1	157.2	160.4
50°	13230.1	4588.2	698.1	534.6	364.8	229.6	169.8	147.8	144.7	147.8	147.8
52.5°	13761.6	4387.0	600.7	452.8	286.2	191.8	150.9	138.4	135.2	128.9	128.9
55°	14478.6	4343.0	478.0	367.9	226.4	160.4	135.2	125.8	116.4	110.1	106.9
57.5°	15400.0	4393.3	367.9	286.2	176.1	132.1	119.5	103.8	91.2	78.6	78.6
60°	15972.4	4280.1	286.2	220.1	128.9	106.9	91.2	75.5	59.8	50.3	47.2
62.5°	15790.0	3802.1	226.4	163.5	91.2	78.6	59.8	50.3	34.6	25.2	22.0
65°	14849.7	3069.3	182.4	113.2	66.0	47.2	31.4	31.4	15.7	3.1	0.0
67.5°	12997.4	2273.7	144.7	75.5	37.7	22.0	15.7	9.4	0.0	0.0	0.0
70°	10579.1	1641.6	113.2	47.2	22.0	15.7	6.3	3.1	0.0	0.0	0.0
72.5°	6717.3	940.3	88.1	28.3	15.7	6.3	0.0	0.0	0.0	0.0	0.0
75°	2597.6	367.9	59.8	18.9	6.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	735.9	173.0	34.6	9.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	191.8	75.5	18.9	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	91.2	31.4	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	53.5	12.6	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	25.2	3.1	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)