

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: P647631

Luminaire Tested: **GALN-SA8D-835-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647631
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-835-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 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: 38295 lumens
Efficiency: N/A
Efficacy: 77.7 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

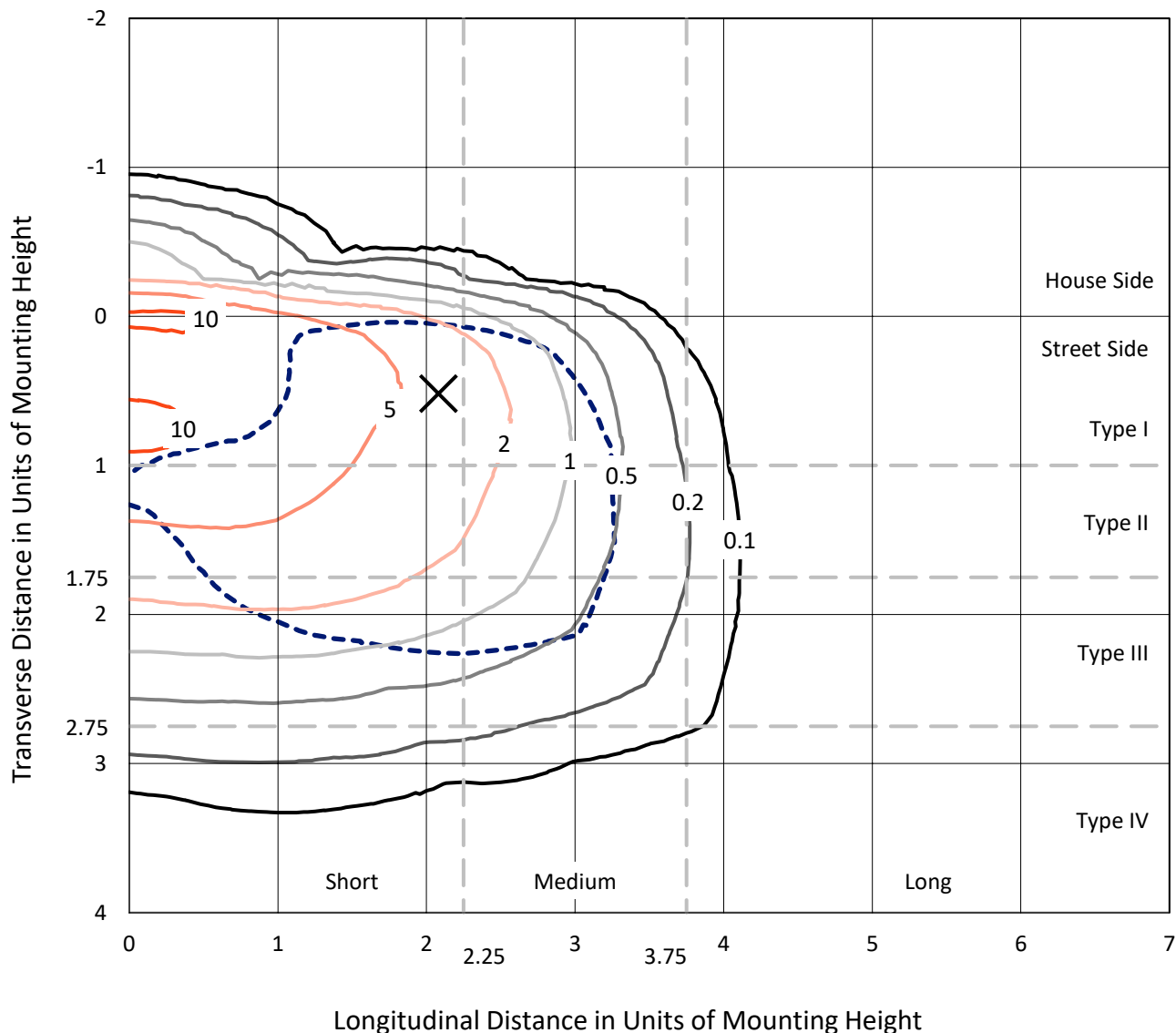
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P647631
 CATALOG NUMBER: GALN-SA8D-835-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

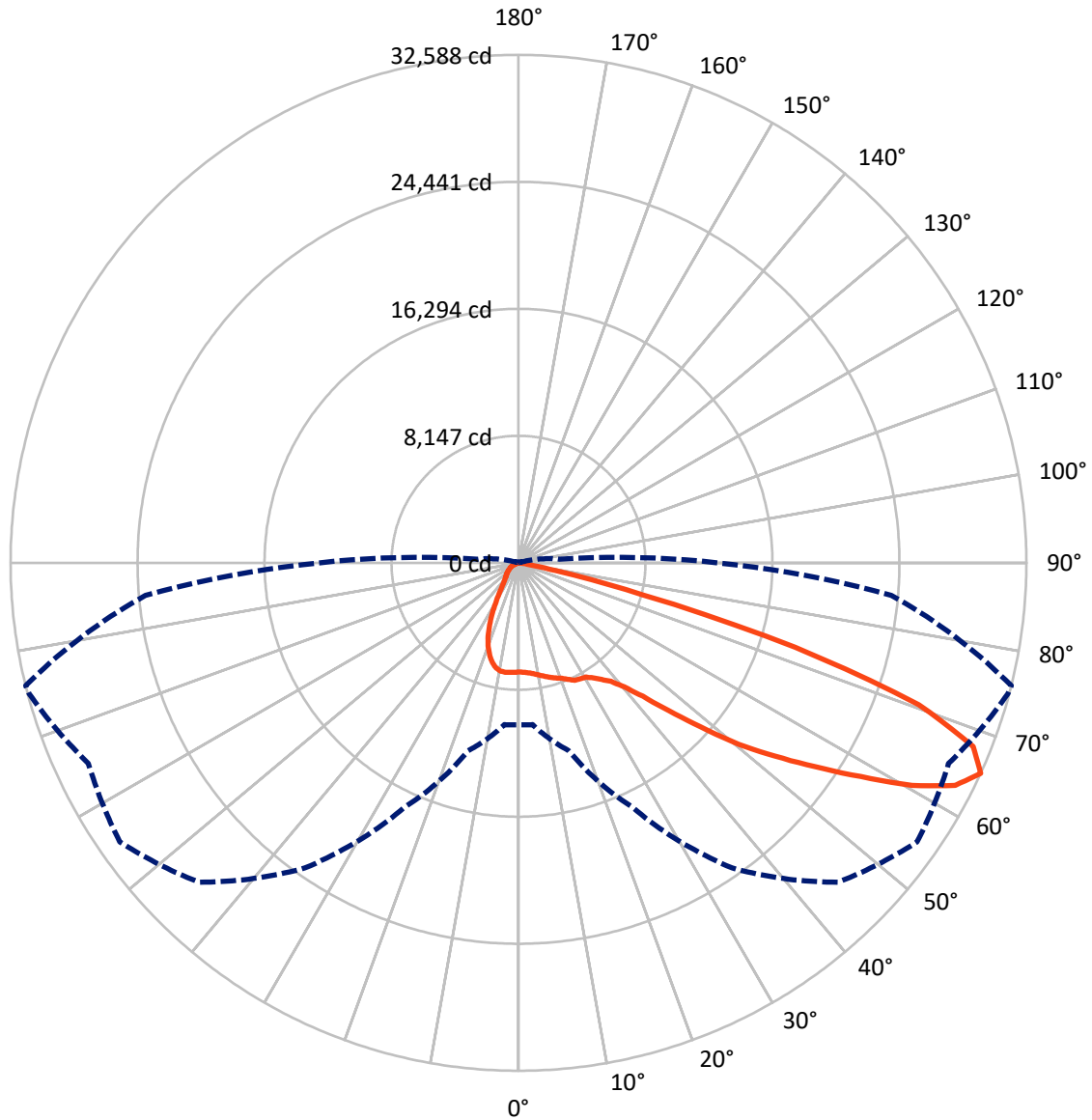
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
 Type III - Short - N/A

REPORT NUMBER: P647631
CATALOG NUMBER: GALN-SA8D-835-U-T3R-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P647631
 CATALOG NUMBER: GALN-SA8D-835-U-T3R-HSS

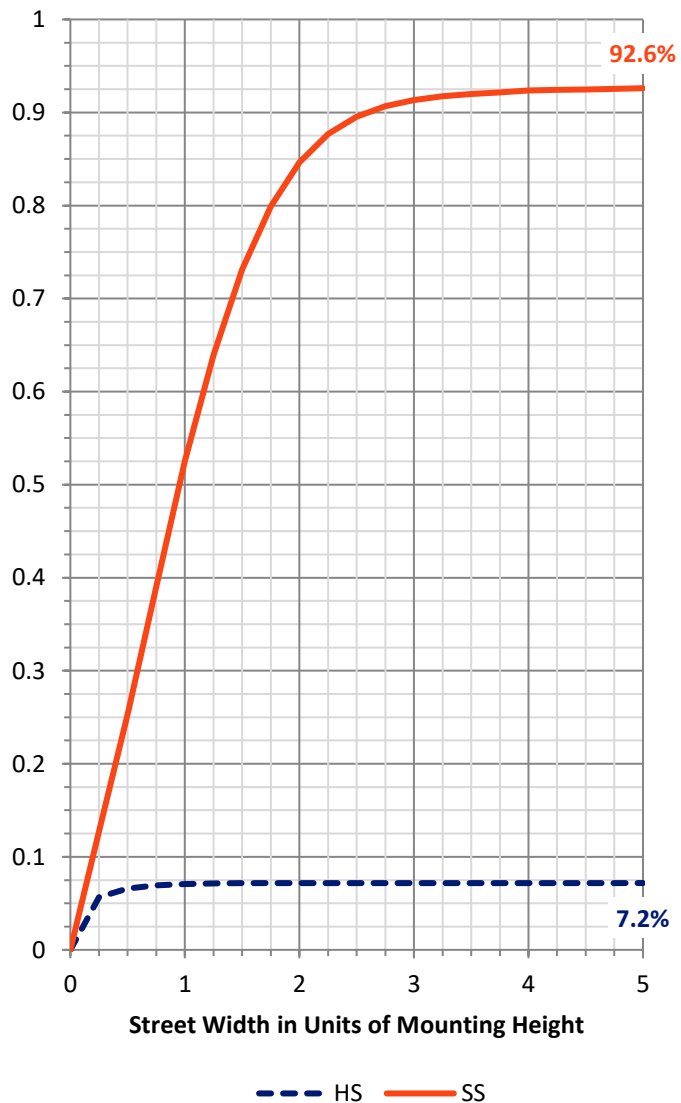
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2765.6	0.0	2765.6
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	35529.3	0.0	35529.3
	% Fixture	92.8	0.0	92.8
Total	Lumens	38295.0	0.0	38295.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	577.1	1.5
10°-20°	1284.9	3.4
20°-30°	2070.5	5.4
30°-40°	3600.1	9.4
40°-50°	5949.0	15.5
50°-60°	9189.9	24.0
60°-70°	11222.2	29.3
70°-80°	4259.1	11.1
80°-90°	142.1	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°	38295.0	100.0
0°-180°	38295.0	100.0

Coefficient of Utilization



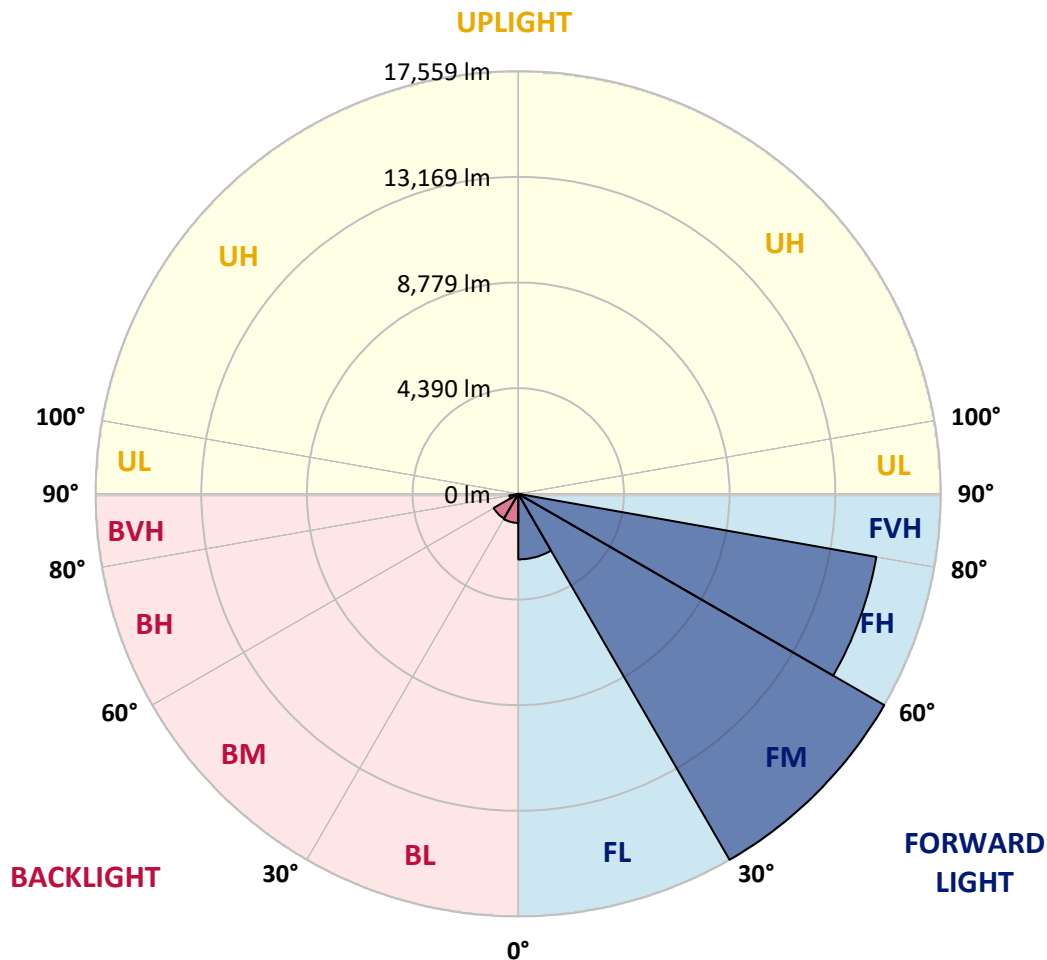
REPORT NUMBER: P647631
 CATALOG NUMBER: GALN-SA8D-835-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2724.2	7.1			
FM (30°-60°)	17558.8	45.9			
FH (60°-80°)	15106.1	39.4			G5
FVH (80°-90°)	140.2	0.4			G2/225
BL (0°-30°)	1208.3	3.2	B3/2500		
BM (30°-60°)	1180.2	3.1	B2/2500		
BH (60°-80°)	375.3	1.0	B1/500		G1/500
BVH (80°-90°)	2.0	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: P647631

CATALOG NUMBER: GALN-SA8D-835-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	7005.3	7005.3	7005.3	7005.3	7005.3	7005.3	7005.3	7005.3	7005.3	7005.3	7005.3
2.5°	6694.4	6697.2	6713.4	6753.9	6816.1	6867.5	6910.8	6981.1	7029.7	7035.1	7051.3
5°	6232.1	6199.6	6232.1	6337.5	6432.2	6575.5	6751.2	6927.0	7083.8	7094.6	7170.3
7.5°	5713.0	5740.0	5791.4	5899.5	6078.0	6297.0	6551.1	6864.8	7162.2	7189.2	7338.0
10°	5185.7	5245.2	5329.0	5494.0	5742.8	6026.6	6372.7	6821.5	7286.6	7324.4	7581.2
12.5°	4699.1	4726.1	4828.8	5050.6	5358.8	5759.0	6237.5	6797.1	7424.5	7470.4	7840.8
15°	4326.0	4361.2	4450.3	4650.4	4993.8	5507.5	6126.7	6789.1	7559.6	7624.5	8100.4
17.5°	4255.7	4277.3	4315.2	4450.3	4750.5	5307.4	6026.6	6786.3	7689.5	7767.8	8341.0
20°	4545.0	4526.1	4488.2	4474.7	4639.6	5153.3	5953.6	6808.0	7813.8	7903.0	8595.1
22.5°	5269.6	5293.9	5072.2	4810.0	4755.9	5129.0	5942.8	6910.8	8011.2	8116.6	8879.1
25°	6808.0	6621.4	6275.4	5648.1	5174.9	5277.7	6064.5	7154.1	8241.0	8357.3	9135.9
27.5°	8508.6	8451.9	7913.9	6881.0	5999.6	5591.3	6280.8	7340.6	8316.7	8435.7	9281.9
30°	10179.5	10247.1	9630.7	8489.8	7197.3	6172.6	6483.6	7410.9	8384.3	8508.6	9468.5
32.5°	11728.8	11809.9	11269.2	10139.0	8608.7	7178.4	6832.3	7684.0	8668.2	8795.2	9779.4
35°	12948.2	12959.0	12550.7	11650.4	10149.8	8400.5	7586.6	8162.5	9052.1	9200.8	10109.2
37.5°	14067.5	14051.3	13572.8	12796.8	11434.1	9614.5	8535.7	8714.2	9490.1	9644.2	10585.1
40°	14897.6	14908.4	14754.3	14024.2	12631.8	10736.5	9287.3	9230.6	10225.5	10466.1	11277.2
42.5°	15451.8	15551.9	15627.6	15257.1	14137.8	12118.1	10441.9	10336.4	11501.6	11701.8	12256.0
45°	15900.6	16079.1	16457.6	16438.7	15584.3	13813.4	12026.2	11809.9	13310.5	13524.1	13502.4
47.5°	16227.8	16408.9	17036.2	17414.7	16944.3	15457.2	14018.8	13832.3	15470.7	15703.3	14878.6
50°	16395.5	16611.7	17412.0	18144.8	18006.9	17041.6	16290.0	16300.8	18079.9	18304.3	16473.9
52.5°	16003.4	16284.6	17612.1	18931.5	19199.2	18558.4	18417.8	18774.7	20402.4	20594.3	17915.0
55°	14751.6	15105.8	17339.1	19602.1	20580.8	20348.3	20834.9	21378.4	22941.2	23065.5	19393.9
57.5°	13959.4	14335.2	16533.4	20172.6	22240.9	22597.8	23368.3	23765.8	25561.1	25877.4	21091.8
60°	13291.6	13586.2	15870.9	20294.2	23928.0	25350.2	26099.1	26510.1	28794.7	29000.2	22960.1
62.5°	12180.3	12518.3	14751.6	19445.3	24777.0	27553.8	29105.7	28921.8	31295.7	31439.0	24106.5
65°	10393.2	10422.9	12480.4	17312.0	23901.0	28984.0	31217.3	30446.7	32490.7	32588.1	24017.3
67.5°	7757.0	8043.6	9601.0	13607.9	20188.8	27761.9	31901.4	30487.3	31736.4	31466.0	22111.1
70°	4996.5	5215.5	6507.9	9436.0	14556.9	23168.3	29632.9	28397.3	27853.8	27253.6	18098.8
72.5°	2306.2	2587.5	3866.4	5391.3	8633.0	16503.6	24055.1	23070.9	20048.2	18566.5	11504.4
75°	1005.8	1076.1	1908.8	2844.3	4047.5	8727.6	15860.1	14321.7	9054.8	8270.8	4604.4
77.5°	613.7	659.7	1000.4	1524.9	1589.8	3325.6	8543.8	6248.3	2798.4	2468.5	1249.1
80°	416.4	467.8	727.3	797.6	543.5	927.4	3206.6	1668.2	565.1	540.7	267.7
82.5°	202.8	256.8	538.1	446.2	235.2	297.4	932.8	356.9	164.9	154.1	94.7
85°	29.8	51.4	302.8	292.0	105.5	70.3	164.9	89.3	56.8	54.1	43.2
87.5°	0.0	0.0	102.7	46.0	10.8	10.8	18.9	18.9	21.6	18.9	21.6
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: P647631

CATALOG NUMBER: GALN-SA8D-835-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7005.3	7005.3	7005.3	7005.3	7005.3	7005.3	7005.3	7005.3	7005.3	7005.3	7005.3
2.5°	7059.4	7073.0	7021.6	6948.6	6870.2	6791.7	6680.9	6580.9	6521.4	6556.5	6470.0
5°	7186.5	7175.7	7040.5	6818.8	6524.1	6169.9	5818.4	5518.3	5421.0	5275.0	5258.8
7.5°	7362.2	7332.6	7045.9	6537.7	5872.5	5207.4	4558.5	4128.6	3882.6	3674.4	3679.8
10°	7608.3	7521.8	6983.7	6042.9	4947.9	3944.8	3117.4	2549.6	2303.6	2225.2	2163.0
12.5°	7862.4	7694.9	6810.7	5375.0	3852.8	2695.6	1895.3	1549.2	1397.8	1349.2	1343.8
15°	8089.6	7824.6	6507.9	4572.0	2801.1	1722.3	1292.4	1178.8	1159.9	1162.6	1159.9
17.5°	8314.0	7927.3	6088.8	3720.3	1903.4	1235.6	1111.2	1084.2	1092.3	1103.1	1100.4
20°	8500.6	7948.9	5553.5	2838.9	1346.4	1084.2	1043.7	1038.3	1046.3	1054.5	1054.5
22.5°	8703.3	7965.2	4918.1	1965.6	1100.4	1008.5	986.9	986.9	997.7	1008.5	1011.2
25°	8854.7	7876.0	4158.4	1411.4	970.6	935.5	924.6	927.4	938.2	943.6	940.9
27.5°	8879.1	7624.5	3352.6	1081.5	881.4	846.3	835.5	846.3	832.7	840.9	835.5
30°	8900.7	7305.5	2536.1	911.2	800.3	746.2	730.0	713.8	703.0	689.4	686.8
32.5°	8968.2	6929.6	1852.0	819.3	724.6	665.1	627.3	581.3	546.1	535.3	532.6
35°	8998.0	6478.2	1360.0	746.2	657.0	592.1	524.5	459.6	408.3	389.3	402.9
37.5°	9111.6	6040.1	1054.5	692.2	597.5	516.4	429.9	348.7	300.1	289.3	294.7
40°	9344.1	5564.3	884.1	646.2	546.1	446.2	340.7	262.2	229.8	219.0	216.3
42.5°	9717.2	5091.1	786.8	602.9	494.8	375.8	267.7	205.5	178.4	170.3	170.3
45°	10171.4	4636.9	719.2	556.9	440.7	302.8	210.9	164.9	148.7	143.3	143.3
47.5°	10769.0	4239.5	662.4	511.0	381.2	240.6	170.3	143.3	132.5	135.2	137.9
50°	11374.6	3944.8	600.2	459.6	313.7	197.4	146.0	127.1	124.3	127.1	127.1
52.5°	11831.5	3771.7	516.4	389.3	246.0	164.9	129.7	118.9	116.3	110.9	110.9
55°	12448.0	3733.9	411.0	316.3	194.7	137.9	116.3	108.1	100.1	94.7	91.9
57.5°	13240.2	3777.1	316.3	246.0	151.4	113.5	102.7	89.3	78.4	67.6	67.6
60°	13732.3	3679.8	246.0	189.3	110.9	91.9	78.4	64.9	51.4	43.2	40.6
62.5°	13575.4	3268.8	194.7	140.6	78.4	67.6	51.4	43.2	29.8	21.6	18.9
65°	12767.0	2638.9	156.8	97.3	56.8	40.6	27.0	27.0	13.5	2.7	0.0
67.5°	11174.5	1954.8	124.3	64.9	32.4	18.9	13.5	8.1	0.0	0.0	0.0
70°	9095.3	1411.4	97.3	40.6	18.9	13.5	5.4	2.7	0.0	0.0	0.0
72.5°	5775.2	808.4	75.7	24.4	13.5	5.4	0.0	0.0	0.0	0.0	0.0
75°	2233.3	316.3	51.4	16.2	5.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	632.7	148.7	29.8	8.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	164.9	64.9	16.2	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	78.4	27.0	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	46.0	10.8	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	21.6	2.7	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)