

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: P456405

Luminaire Tested: **GALN-SA7C-830-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456405
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7C-830-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38568 lumens
Efficiency: N/A
Efficacy: 102.3 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): 377
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

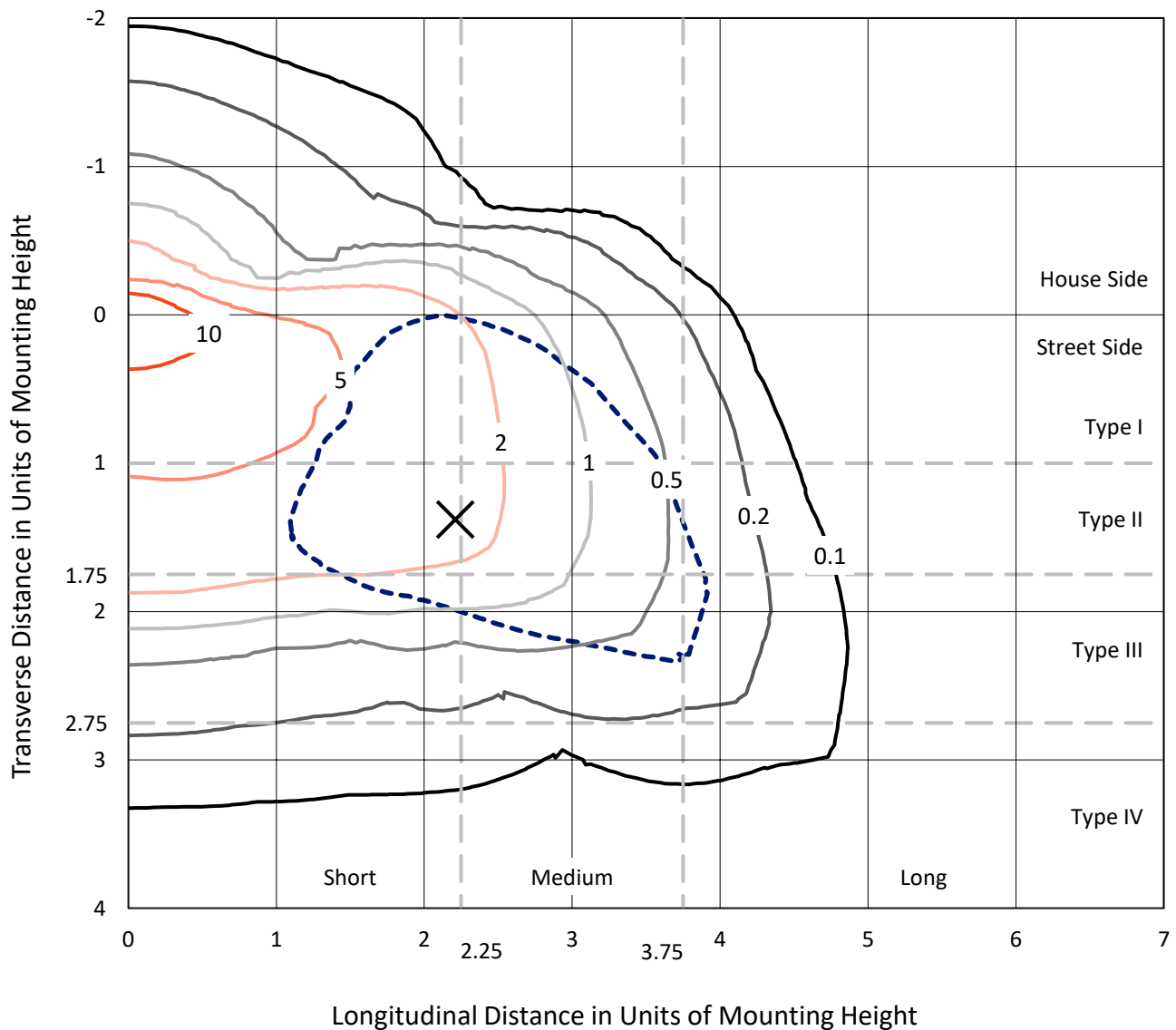


REPORT NUMBER: P456405

CATALOG NUMBER: GALN-SA7C-830-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

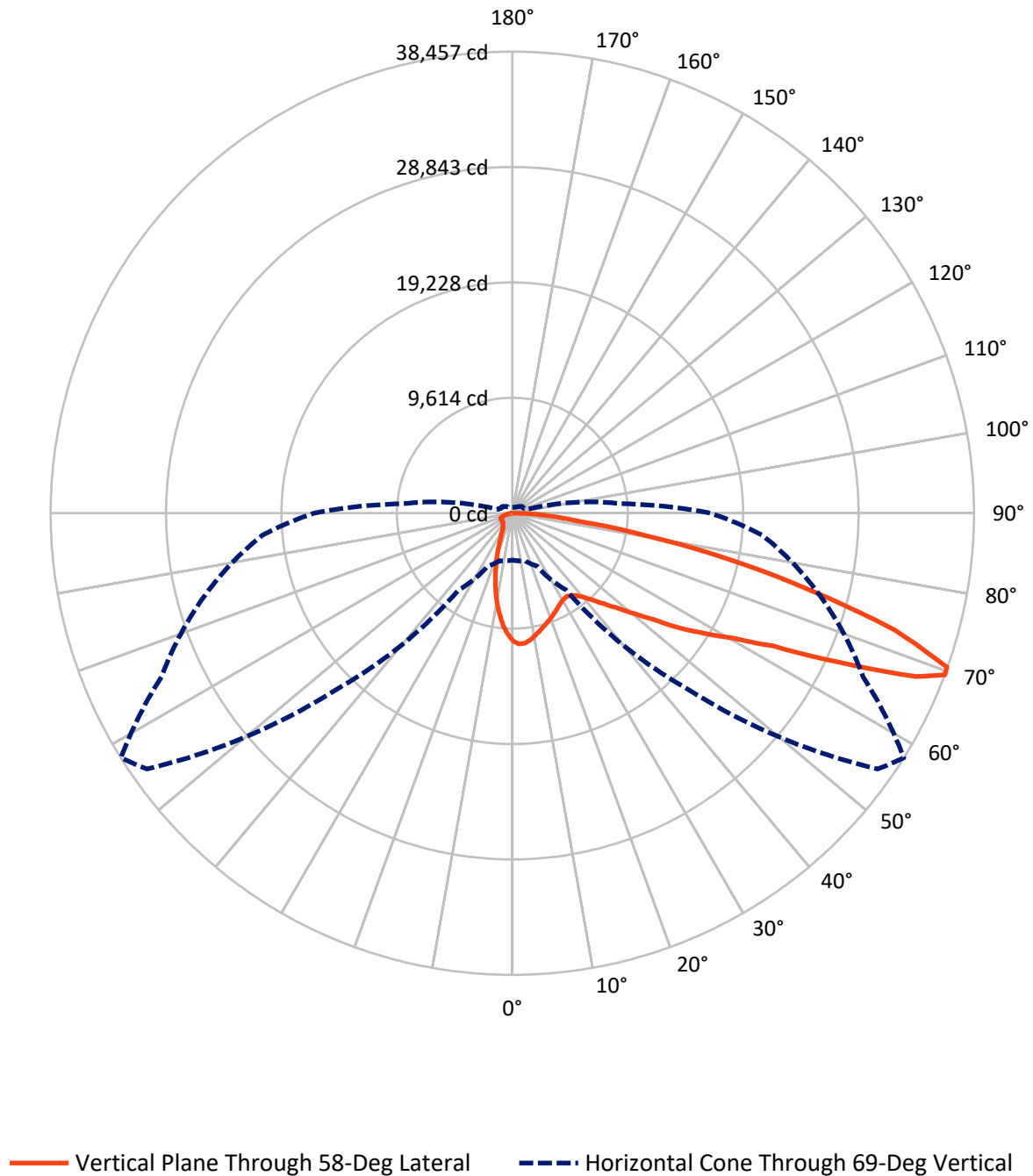
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.1 fc
 Type III - Short - N/A

REPORT NUMBER: P456405
CATALOG NUMBER: GALN-SA7C-830-U-SL3

Luminous Intensity Polar Plot



REPORT NUMBER: P456405

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5652.1	0.0	5652.1
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	32915.9	0.0	32915.9
	% Fixture	85.3	0.0	85.3
Total	Lumens	38568.0	0.0	38568.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	905.1	2.3
10°-20°	1987.5	5.2
20°-30°	2567.9	6.7
30°-40°	3335.1	8.6
40°-50°	4848.8	12.6
50°-60°	7737.1	20.1
60°-70°	10335.8	26.8
70°-80°	5958.2	15.4
80°-90°	892.4	2.3
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°	38568.0	100.0
0°-180°	38568.0	100.0

Coefficient of Utilization



REPORT NUMBER: P456405

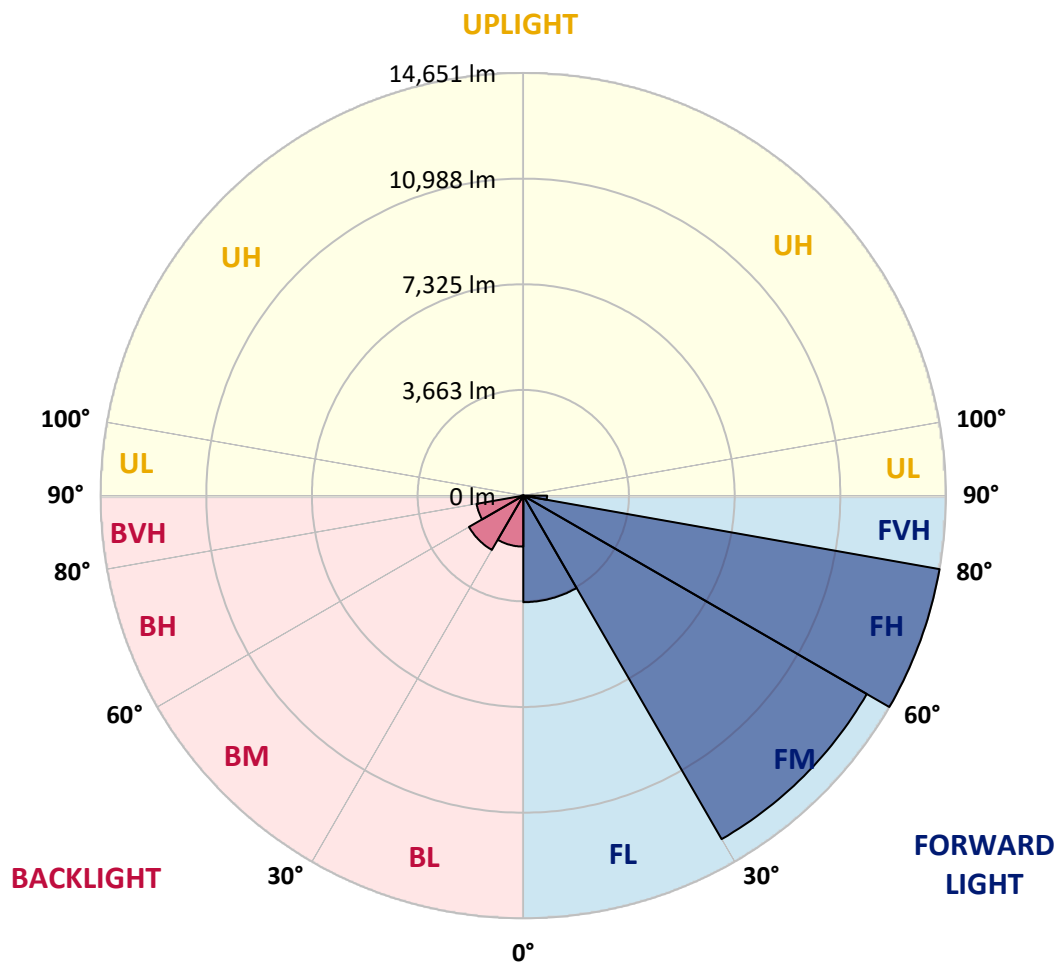
CATALOG NUMBER: GALN-SA7C-830-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3693.8	9.6			
FM	(30°-60°)	13747.5	35.6			
FH	(60°-80°)	14650.5	38.0			G5
FVH	(80°-90°)	824.0	2.1			G5
BL	(0°-30°)	1766.6	4.6	B3/2500		
BM	(30°-60°)	2173.6	5.6	B2/2500		
BH	(60°-80°)	1643.5	4.3	B3/2500		G3/2500
BVH	(80°-90°)	68.4	0.2			G1/100
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: P456405

CATALOG NUMBER: GALN-SA7C-830-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	10657.9	10657.9	10657.9	10657.9	10657.9	10657.9	10657.9	10657.9	10657.9	10657.9	10657.9
2.5°	11053.7	11083.8	11075.2	11064.5	11047.3	10999.9	10922.5	10909.6	10860.1	10754.7	10623.5
5°	10883.8	10909.6	10911.7	10926.8	10948.3	10939.7	10883.8	10877.3	10804.2	10662.2	10442.8
7.5°	10300.9	10335.3	10410.6	10494.5	10569.7	10640.7	10657.9	10668.7	10623.5	10460.1	10167.5
10°	9644.8	9679.3	9713.7	9838.4	10023.4	10199.8	10346.1	10365.4	10376.2	10225.6	9868.5
12.5°	8917.8	8988.8	9061.9	9246.9	9494.3	9771.7	10029.9	10070.7	10143.9	10029.9	9610.4
15°	8300.5	8373.6	8479.0	8644.7	8943.6	9343.7	9707.2	9773.9	9918.0	9859.9	9369.5
17.5°	7872.5	7898.3	7971.4	8160.7	8483.3	8904.9	9391.0	9524.4	9754.5	9739.5	9163.0
20°	7534.8	7567.0	7612.2	7728.3	8063.9	8509.1	9096.4	9268.4	9580.3	9631.9	8958.7
22.5°	7392.8	7416.5	7410.0	7472.4	7700.4	8147.8	8797.4	9001.7	9425.4	9558.8	8769.4
25°	7401.4	7422.9	7390.7	7375.6	7511.1	7829.4	8485.5	8745.7	9300.7	9509.3	8597.3
27.5°	7545.5	7560.6	7500.3	7440.1	7450.9	7631.6	8227.4	8515.6	9195.3	9530.8	8453.2
30°	7739.1	7767.1	7728.3	7655.2	7575.6	7584.2	8061.7	8345.7	9145.8	9606.1	8384.4
32.5°	7988.6	8014.4	7997.2	7939.1	7835.9	7721.9	8020.9	8283.3	9150.1	9758.8	8369.3
35°	8251.0	8302.7	8330.6	8326.3	8242.4	8044.5	8182.2	8399.4	9253.4	10014.8	8457.5
37.5°	8547.9	8590.9	8711.3	8788.8	8711.3	8481.2	8545.7	8696.3	9481.4	10384.8	8651.1
40°	8836.1	8900.6	9077.0	9317.9	9287.8	9085.6	9100.7	9199.6	9883.6	10935.4	9029.7
42.5°	9137.2	9214.7	9522.2	9879.3	9950.3	9793.3	9834.1	9922.3	10455.7	11699.0	9679.3
45°	9524.4	9616.9	9995.4	10440.7	10720.3	10623.5	10739.7	10782.7	11221.5	12692.7	10535.3
47.5°	10023.4	10131.0	10597.7	11152.7	11548.4	11636.6	11838.8	11813.0	12170.1	13869.3	11645.2
50°	10864.4	10924.7	11365.6	11931.3	12475.5	12873.4	13092.8	13133.7	13346.6	15013.6	12886.3
52.5°	11864.6	11918.4	12236.7	12731.4	13413.3	14256.5	14798.5	14665.1	14716.8	16407.4	14338.2
55°	12989.6	13079.9	13282.1	13611.2	14495.2	15736.3	16824.7	16857.0	16284.8	17741.0	15729.9
57.5°	13860.7	14013.4	14359.7	14828.6	15949.3	17381.8	18844.4	18865.9	18134.6	19164.9	17265.6
60°	13421.9	13602.6	14394.1	15536.3	17857.2	20253.3	21257.8	21135.2	19935.0	20786.7	19139.1
62.5°	11529.1	11561.3	12712.1	14497.4	18444.4	24094.9	24849.9	24331.5	22337.6	22843.0	21042.7
65°	7461.6	7672.4	8584.4	11086.0	16515.0	26226.5	31143.5	29945.5	25706.0	25176.8	22636.6
67.5°	4710.6	4656.8	5035.4	6330.2	11359.1	24348.7	36514.5	36325.2	30111.1	26650.2	22255.8
69°	3906.1	3966.3	4095.4	4852.5	7816.5	20788.9	37149.0	38456.8	32247.0	26534.1	20872.8
70°	3542.6	3570.6	3706.1	4301.9	6031.3	17411.9	36107.9	38398.7	33085.9	26048.0	19870.4
72.5°	2811.3	2809.1	3041.4	3579.2	4508.4	9939.5	29648.6	33337.5	32148.0	23785.2	16418.2
75°	2135.9	2170.3	2426.3	3028.5	4153.5	5431.1	20689.9	25673.7	25675.8	18786.4	10245.0
77.5°	1540.1	1561.6	1860.6	2542.4	3912.6	4403.0	13781.1	18414.2	17310.8	8608.1	3220.0
80°	1008.8	1021.7	1249.7	2013.3	3527.6	4153.5	8171.4	11271.0	8165.0	2284.3	1064.7
82.5°	552.8	617.3	763.6	1303.5	2830.6	3837.3	4966.5	5704.3	3062.9	1017.4	554.9
85°	277.5	294.7	430.2	761.4	1849.8	3174.8	3458.7	3271.6	1580.9	505.5	288.2
87.5°	81.7	103.2	178.5	294.7	750.7	1654.1	1925.1	1727.2	608.7	182.8	60.2
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: P456405

CATALOG NUMBER: GALN-SA7C-830-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10657.9	10657.9	10657.9	10657.9	10657.9	10657.9	10657.9	10657.9	10657.9	10657.9	10657.9
2.5°	10569.7	10531.0	10359.0	10204.1	10062.1	9911.6	9784.7	9672.8	9683.6	9685.7	9571.7
5°	10328.8	10240.7	9913.7	9608.3	9350.2	9023.2	8743.6	8562.9	8472.6	8352.1	8395.1
7.5°	10001.9	9832.0	9378.1	8870.5	8395.1	7971.4	7511.1	7194.9	6992.7	6797.0	6822.8
10°	9664.2	9391.0	8730.7	8059.6	7444.4	6766.9	6179.7	5676.3	5302.1	5162.3	5069.8
12.5°	9317.9	8958.7	8119.8	7227.2	6377.6	5566.6	4734.2	4194.3	3781.4	3562.0	3589.9
15°	9001.7	8565.1	7483.1	6394.8	5291.3	4325.6	3495.3	2981.2	2693.0	2632.8	2667.2
17.5°	8709.2	8137.0	6887.3	5586.0	4297.6	3243.6	2626.3	2335.9	2219.8	2187.5	2185.4
20°	8408.0	7773.5	6218.4	4721.3	3349.0	2514.5	2155.2	2019.7	1998.2	2011.1	2013.3
22.5°	8102.6	7324.0	5530.1	3863.1	2667.2	2056.3	1884.2	1847.7	1864.9	1895.0	1899.3
25°	7820.8	6928.2	4867.6	3110.3	2129.4	1806.8	1722.9	1722.9	1761.6	1806.8	1808.9
27.5°	7588.5	6545.3	4207.3	2469.3	1783.1	1626.1	1598.2	1613.2	1667.0	1701.4	1703.5
30°	7397.1	6188.3	3583.5	1978.9	1568.0	1482.0	1475.5	1501.4	1540.1	1572.3	1574.5
32.5°	7253.0	5874.2	3000.6	1662.7	1419.6	1372.3	1370.2	1389.5	1411.0	1419.6	1428.2
35°	7197.1	5614.0	2467.1	1462.6	1320.7	1290.6	1290.6	1288.4	1297.0	1301.3	1305.6
37.5°	7242.2	5413.9	2054.2	1333.6	1247.5	1226.0	1213.1	1200.2	1195.9	1195.9	1198.1
40°	7433.7	5308.5	1746.6	1249.7	1195.9	1163.7	1140.0	1124.9	1109.9	1114.2	1118.5
42.5°	7840.2	5327.9	1537.9	1193.8	1150.8	1105.6	1071.2	1054.0	1043.2	1056.1	1054.0
45°	8487.6	5521.5	1404.6	1155.1	1105.6	1047.5	1015.2	998.0	998.0	1017.4	1023.9
47.5°	9393.2	5891.4	1333.6	1124.9	1071.2	1002.3	970.1	957.2	961.5	993.7	995.9
50°	10498.8	6534.6	1320.7	1109.9	1054.0	970.1	933.5	920.6	931.4	965.8	970.1
52.5°	11718.4	7362.7	1383.1	1112.0	1038.9	950.7	903.4	884.0	894.8	922.8	931.4
55°	13163.8	8399.4	1544.4	1120.6	1017.4	940.0	881.9	838.9	851.8	871.1	873.3
57.5°	14639.3	9707.2	1828.3	1122.8	1000.2	920.6	845.3	789.4	789.4	802.3	808.8
60°	16441.8	11131.1	2202.6	1124.9	1002.3	892.6	795.9	733.5	724.9	731.3	733.5
62.5°	18231.4	12322.8	2264.9	1118.5	1023.9	864.7	742.1	677.5	662.5	660.3	656.0
65°	19020.8	12101.2	1856.3	1088.4	1047.5	847.5	699.1	623.8	598.0	589.4	589.4
67.5°	17734.5	10236.4	1396.0	1047.5	1032.5	830.3	658.2	578.6	548.5	531.3	531.3
69°	16525.7	9105.0	1254.0	1019.5	993.7	802.3	632.4	554.9	518.4	499.0	492.6
70°	15592.2	8326.3	1193.8	995.9	957.2	770.0	613.0	537.7	496.9	475.4	471.1
72.5°	12443.2	6532.4	1045.4	905.5	815.2	647.4	544.2	484.0	445.2	421.6	415.1
75°	7171.3	3540.5	866.8	787.2	656.0	503.3	460.3	421.6	391.5	370.0	363.5
77.5°	2206.9	1368.0	628.1	621.6	481.8	389.3	367.8	352.8	331.2	307.6	303.3
80°	929.2	696.9	425.9	419.4	320.5	271.0	264.6	262.4	253.8	234.5	228.0
82.5°	509.8	393.6	296.8	258.1	193.6	157.0	163.5	165.6	159.2	139.8	126.9
85°	249.5	215.1	144.1	116.2	88.2	55.9	53.8	64.5	60.2	43.0	47.3
87.5°	49.5	60.2	38.7	17.2	8.6	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)