

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: P456637

Luminaire Tested: **GALN-SA7D-830-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456637
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-SA7D-830-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1200mA 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: 42439 lumens
Efficiency: N/A
Efficacy: 98.0 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): 433
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

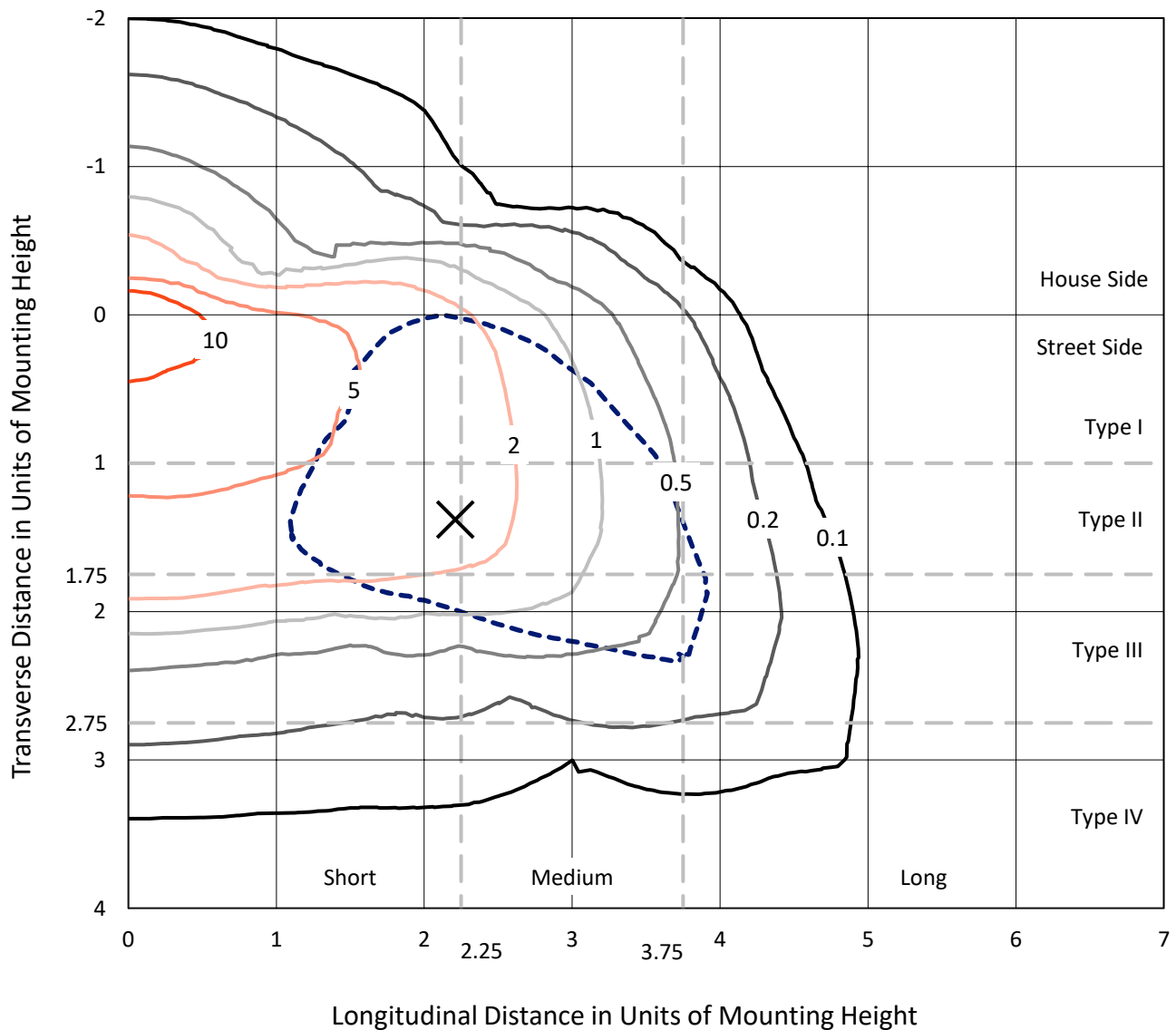


REPORT NUMBER: P456637

CATALOG NUMBER: GALN-SA7D-830-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

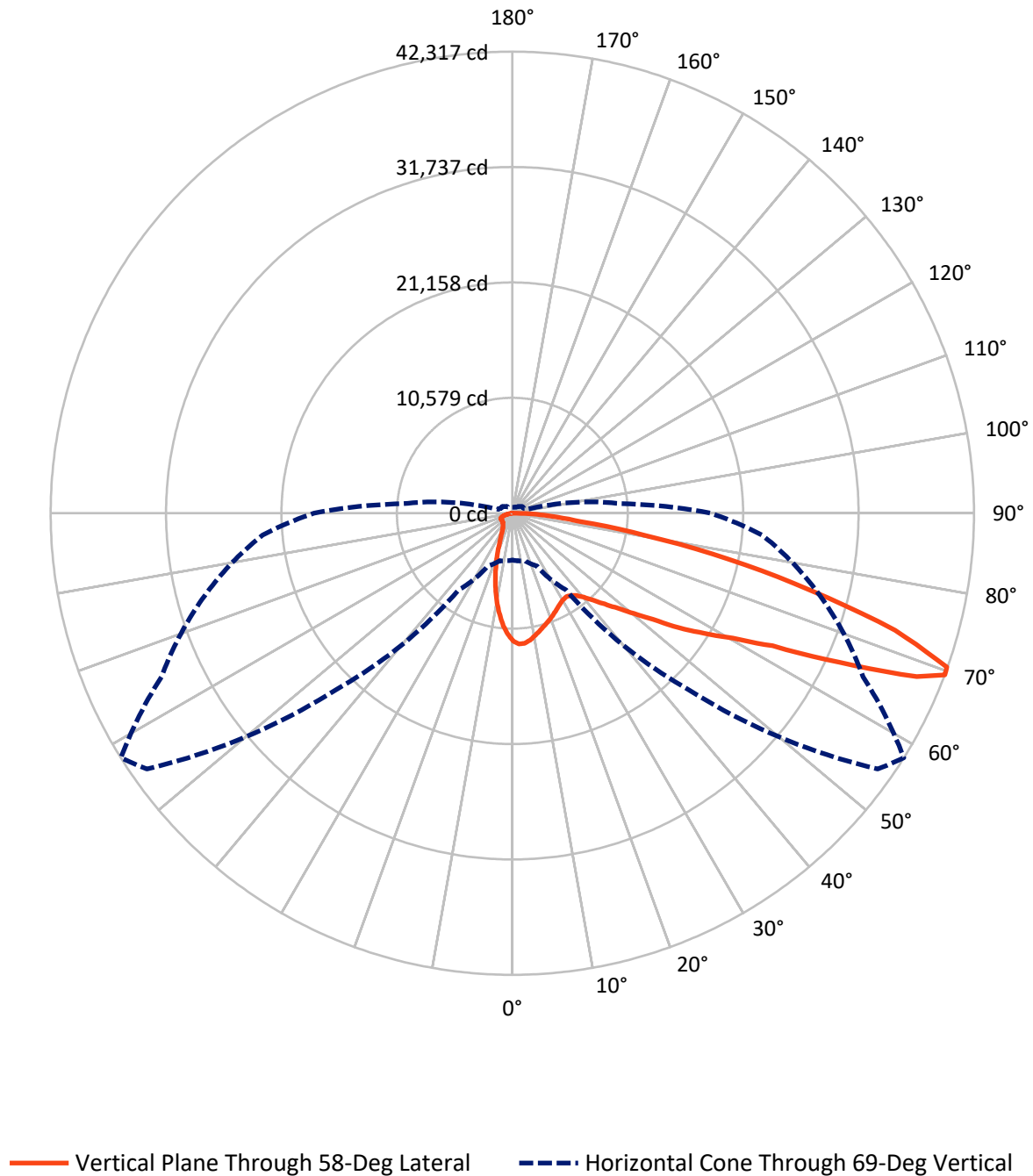


Based on 25 foot mounting height. Maximum calculated value = 18.8 fc
 Type III - Short - N/A

REPORT NUMBER: P456637

CATALOG NUMBER: GALN-SA7D-830-U-SL3

Luminous Intensity Polar Plot



REPORT NUMBER: P456637

CATALOG NUMBER: GALN-SA7D-830-U-SL3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6219.4	0.0	6219.4
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	36219.6	0.0	36219.6
	% Fixture	85.3	0.0	85.3
Total	Lumens	42439.0	0.0	42439.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	996.0	2.3
10°-20°	2187.0	5.2
20°-30°	2825.6	6.7
30°-40°	3669.9	8.6
40°-50°	5335.5	12.6
50°-60°	8513.7	20.1
60°-70°	11373.2	26.8
70°-80°	6556.2	15.4
80°-90°	982.0	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°	42439.0	100.0
0°-180°	42439.0	100.0

Coefficient of Utilization



REPORT NUMBER: P456637

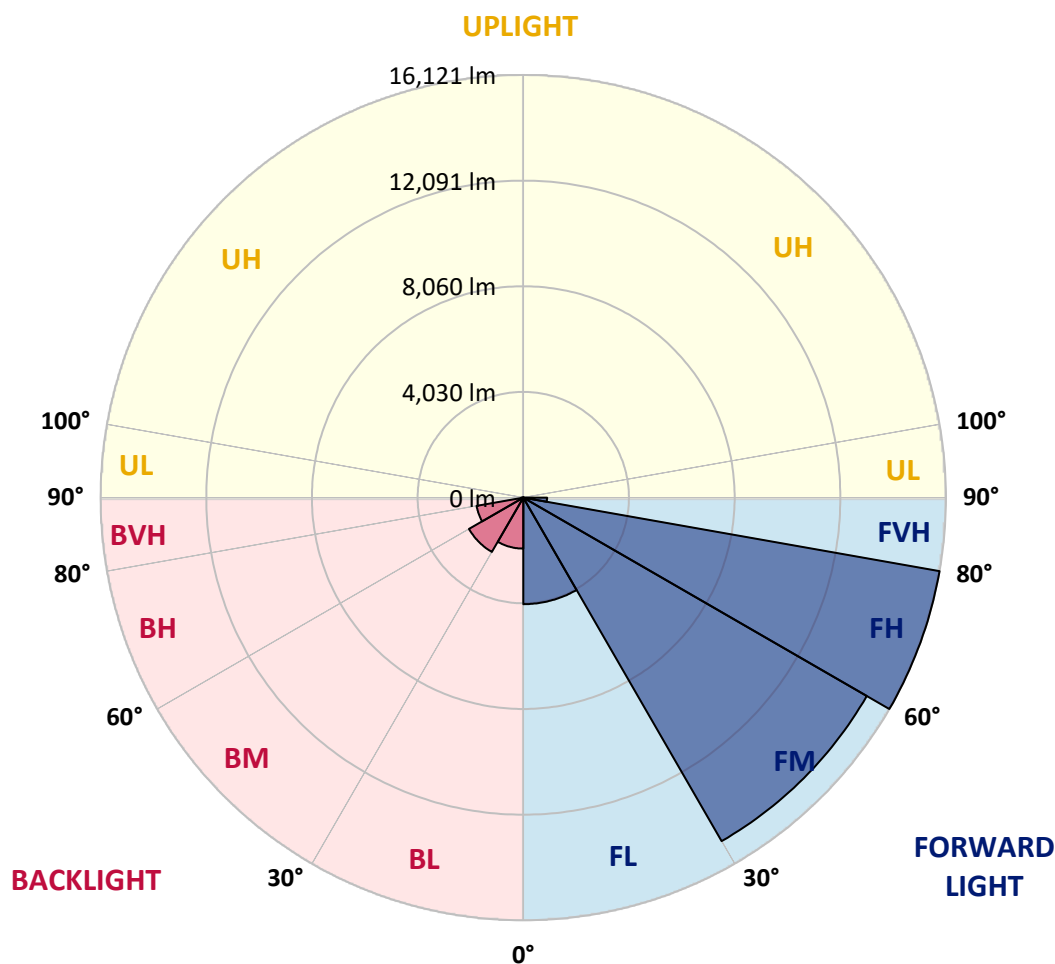
CATALOG NUMBER: GALN-SA7D-830-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4064.6	9.6			
FM	(30°-60°)	15127.3	35.6			
FH	(60°-80°)	16120.9	38.0			G5
FVH	(80°-90°)	906.8	2.1			G5
BL	(0°-30°)	1943.9	4.6	B3/2500		
BM	(30°-60°)	2391.8	5.6	B2/2500		
BH	(60°-80°)	1808.5	4.3	B3/2500		G3/2500
BVH	(80°-90°)	75.2	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: P456637

CATALOG NUMBER: GALN-SA7D-830-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	11727.7	11727.7	11727.7	11727.7	11727.7	11727.7	11727.7	11727.7	11727.7	11727.7	11727.7
2.5°	12163.2	12196.3	12186.8	12175.0	12156.1	12104.0	12018.8	12004.6	11950.1	11834.2	11689.8
5°	11976.2	12004.6	12006.9	12023.5	12047.2	12037.7	11976.2	11969.1	11888.6	11732.4	11491.0
7.5°	11334.8	11372.6	11455.5	11547.8	11630.6	11708.7	11727.7	11739.5	11689.8	11509.9	11188.0
10°	10612.9	10650.7	10688.6	10825.9	11029.4	11223.5	11384.5	11405.8	11417.6	11251.9	10859.0
12.5°	9812.9	9891.0	9971.5	10175.0	10447.2	10752.5	11036.5	11081.5	11162.0	11036.5	10575.0
15°	9133.6	9214.1	9330.1	9512.3	9841.3	10281.5	10681.5	10754.9	10913.5	10849.6	10309.9
17.5°	8662.6	8691.0	8771.5	8979.8	9334.8	9798.7	10333.6	10480.3	10733.6	10717.0	10082.7
20°	8291.0	8326.5	8376.2	8504.0	8873.3	9363.2	10009.3	10198.7	10541.9	10598.7	9857.9
22.5°	8134.8	8160.8	8153.7	8222.4	8473.3	8965.6	9680.3	9905.2	10371.5	10518.2	9649.6
25°	8144.3	8167.9	8132.4	8115.9	8265.0	8615.3	9337.2	9623.5	10234.2	10463.8	9460.2
27.5°	8302.8	8319.4	8253.1	8186.9	8198.7	8397.5	9053.1	9370.3	10118.2	10487.4	9301.7
30°	8515.9	8546.6	8504.0	8423.6	8336.0	8345.5	8870.9	9183.3	10063.8	10570.3	9225.9
32.5°	8790.4	8818.8	8799.9	8736.0	8622.4	8496.9	8825.9	9114.7	10068.5	10738.3	9209.3
35°	9079.2	9136.0	9166.7	9162.0	9069.7	8852.0	9003.4	9242.5	10182.1	11020.0	9306.4
37.5°	9405.8	9453.1	9585.7	9670.9	9585.7	9332.4	9403.4	9569.1	10433.0	11427.1	9519.4
40°	9722.9	9794.0	9988.0	10253.1	10220.0	9997.5	10014.1	10122.9	10875.6	12033.0	9936.0
42.5°	10054.3	10139.5	10478.0	10870.9	10949.0	10776.2	10821.2	10918.2	11505.2	12873.2	10650.7
45°	10480.3	10582.1	10998.7	11488.6	11796.3	11689.8	11817.6	11864.9	12347.8	13966.7	11592.7
47.5°	11029.4	11147.8	11661.4	12272.0	12707.5	12804.6	13027.0	12998.6	13391.5	15261.3	12814.0
50°	11954.9	12021.1	12506.3	13128.8	13727.6	14165.5	14406.9	14451.9	14686.2	16520.5	14179.7
52.5°	13055.4	13114.6	13464.9	14009.3	14759.6	15687.4	16283.8	16137.1	16193.9	18054.2	15777.3
55°	14293.3	14392.7	14615.2	14977.3	15950.1	17315.7	18513.4	18548.9	17919.3	19521.6	17308.6
57.5°	15251.9	15419.9	15801.0	16316.9	17550.1	19126.4	20735.8	20759.5	19954.8	21088.5	18998.6
60°	14769.0	14967.8	15838.8	17095.6	19649.4	22286.1	23391.4	23256.5	21935.8	22873.1	21060.1
62.5°	12686.2	12721.7	13988.0	15952.5	20295.6	26513.3	27344.0	26773.6	24579.6	25135.8	23154.7
65°	8210.5	8442.5	9446.0	12198.7	18172.5	28858.8	34269.4	32951.0	28286.0	27703.8	24908.5
67.5°	5183.4	5124.2	5540.8	6965.6	12499.2	26792.5	40179.3	39971.1	33133.3	29325.1	24489.6
69°	4298.2	4364.4	4506.4	5339.6	8601.1	22875.4	40877.6	42316.6	35483.6	29197.2	22967.7
70°	3898.2	3928.9	4078.1	4733.7	6636.6	19159.5	39732.0	42252.7	36406.6	28662.3	21864.8
72.5°	3093.5	3091.1	3346.7	3938.4	4960.9	10937.1	32624.4	36683.5	35374.7	26172.4	18066.0
75°	2350.3	2388.1	2669.8	3332.5	4570.4	5976.3	22766.6	28250.5	28252.9	20671.9	11273.2
77.5°	1694.7	1718.3	2047.3	2797.6	4305.3	4844.9	15164.3	20262.5	19048.3	9472.1	3543.1
80°	1110.0	1124.2	1375.1	2215.4	3881.6	4570.4	8991.6	12402.2	8984.5	2513.6	1171.6
82.5°	608.3	679.3	840.2	1434.3	3114.8	4222.4	5465.0	6276.8	3370.4	1119.5	610.6
85°	305.3	324.3	473.4	837.9	2035.5	3493.4	3805.9	3600.0	1739.6	556.2	317.2
87.5°	89.9	113.6	196.4	324.3	826.0	1820.1	2118.3	1900.6	669.8	201.2	66.3
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: P456637

CATALOG NUMBER: GALN-SA7D-830-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11727.7	11727.7	11727.7	11727.7	11727.7	11727.7	11727.7	11727.7	11727.7	11727.7	11727.7
2.5°	11630.6	11588.0	11398.7	11228.3	11072.0	10906.4	10766.7	10643.6	10655.5	10657.8	10532.4
5°	11365.5	11268.5	10908.7	10572.6	10288.6	9928.9	9621.2	9422.4	9323.0	9190.4	9237.7
7.5°	11005.8	10818.8	10319.4	9760.8	9237.7	8771.5	8265.0	7917.1	7694.6	7479.2	7507.6
10°	10634.2	10333.6	9607.0	8868.5	8191.6	7446.1	6799.9	6246.1	5834.2	5680.4	5578.6
12.5°	10253.1	9857.9	8934.8	7952.6	7017.7	6125.4	5209.4	4615.3	4160.9	3919.5	3950.2
15°	9905.2	9424.7	8234.2	7036.6	5822.4	4759.7	3846.1	3280.4	2963.3	2897.0	2934.9
17.5°	9583.3	8953.7	7578.6	6146.7	4728.9	3569.2	2889.9	2570.4	2442.6	2407.1	2404.7
20°	9251.9	8553.7	6842.5	5195.2	3685.2	2766.8	2371.6	2222.5	2198.8	2213.0	2215.4
22.5°	8915.9	8059.1	6085.1	4250.8	2934.9	2262.7	2073.3	2033.1	2052.0	2085.2	2089.9
25°	8605.8	7623.6	5356.1	3422.4	2343.2	1988.1	1895.8	1895.8	1938.4	1988.1	1990.5
27.5°	8350.2	7202.3	4629.5	2717.1	1962.1	1789.3	1758.6	1775.1	1834.3	1872.2	1874.5
30°	8139.5	6809.4	3943.1	2177.5	1725.4	1630.7	1623.6	1652.0	1694.7	1730.2	1732.5
32.5°	7981.0	6463.8	3301.7	1829.6	1562.1	1510.0	1507.7	1529.0	1552.6	1562.1	1571.6
35°	7919.4	6177.4	2714.8	1609.4	1453.2	1420.1	1420.1	1417.7	1427.2	1431.9	1436.7
37.5°	7969.1	5957.3	2260.3	1467.4	1372.8	1349.1	1334.9	1320.7	1316.0	1316.0	1318.3
40°	8179.8	5841.3	1921.9	1375.1	1316.0	1280.5	1254.4	1237.9	1221.3	1226.0	1230.8
42.5°	8627.1	5862.6	1692.3	1313.6	1266.3	1216.6	1178.7	1159.7	1147.9	1162.1	1159.7
45°	9339.5	6075.7	1545.5	1271.0	1216.6	1152.6	1117.1	1098.2	1098.2	1119.5	1126.6
47.5°	10336.0	6482.8	1467.4	1237.9	1178.7	1102.9	1067.4	1053.2	1058.0	1093.5	1095.8
50°	11552.5	7190.4	1453.2	1221.3	1159.7	1067.4	1027.2	1013.0	1024.8	1062.7	1067.4
52.5°	12894.5	8101.7	1521.9	1223.7	1143.2	1046.1	994.1	972.8	984.6	1015.4	1024.8
55°	14485.0	9242.5	1699.4	1233.1	1119.5	1034.3	970.4	923.1	937.3	958.6	960.9
57.5°	16108.7	10681.5	2011.8	1235.5	1100.6	1013.0	930.2	868.6	868.6	882.8	889.9
60°	18092.1	12248.4	2423.6	1237.9	1102.9	982.2	875.7	807.1	797.6	804.7	807.1
62.5°	20061.3	13559.6	2492.3	1230.8	1126.6	951.5	816.6	745.6	729.0	726.6	721.9
65°	20929.9	13315.8	2042.6	1197.6	1152.6	932.5	769.2	686.4	658.0	648.5	648.5
67.5°	19514.5	11263.8	1536.1	1152.6	1136.1	913.6	724.3	636.7	603.5	584.6	584.6
69°	18184.4	10018.8	1379.9	1121.9	1093.5	882.8	695.8	610.6	570.4	549.1	542.0
70°	17157.2	9162.0	1313.6	1095.8	1053.2	847.3	674.5	591.7	546.7	523.1	518.3
72.5°	13692.1	7188.1	1150.3	996.4	897.0	712.4	598.8	532.5	489.9	463.9	456.8
75°	7891.0	3895.8	953.8	866.3	721.9	553.8	506.5	463.9	430.8	407.1	400.0
77.5°	2428.4	1505.3	691.1	684.0	530.2	428.4	404.7	388.2	364.5	338.5	333.7
80°	1022.5	766.9	468.6	461.5	352.7	298.2	291.1	288.8	279.3	258.0	250.9
82.5°	560.9	433.1	326.6	284.0	213.0	172.8	179.9	182.2	175.1	153.8	139.6
85°	274.6	236.7	158.6	127.8	97.0	61.5	59.2	71.0	66.3	47.3	52.1
87.5°	54.4	66.3	42.6	18.9	9.5	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)