

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: P648207

Luminaire Tested: **GALN-SA1B-835-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648207
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-835-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4499.9 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

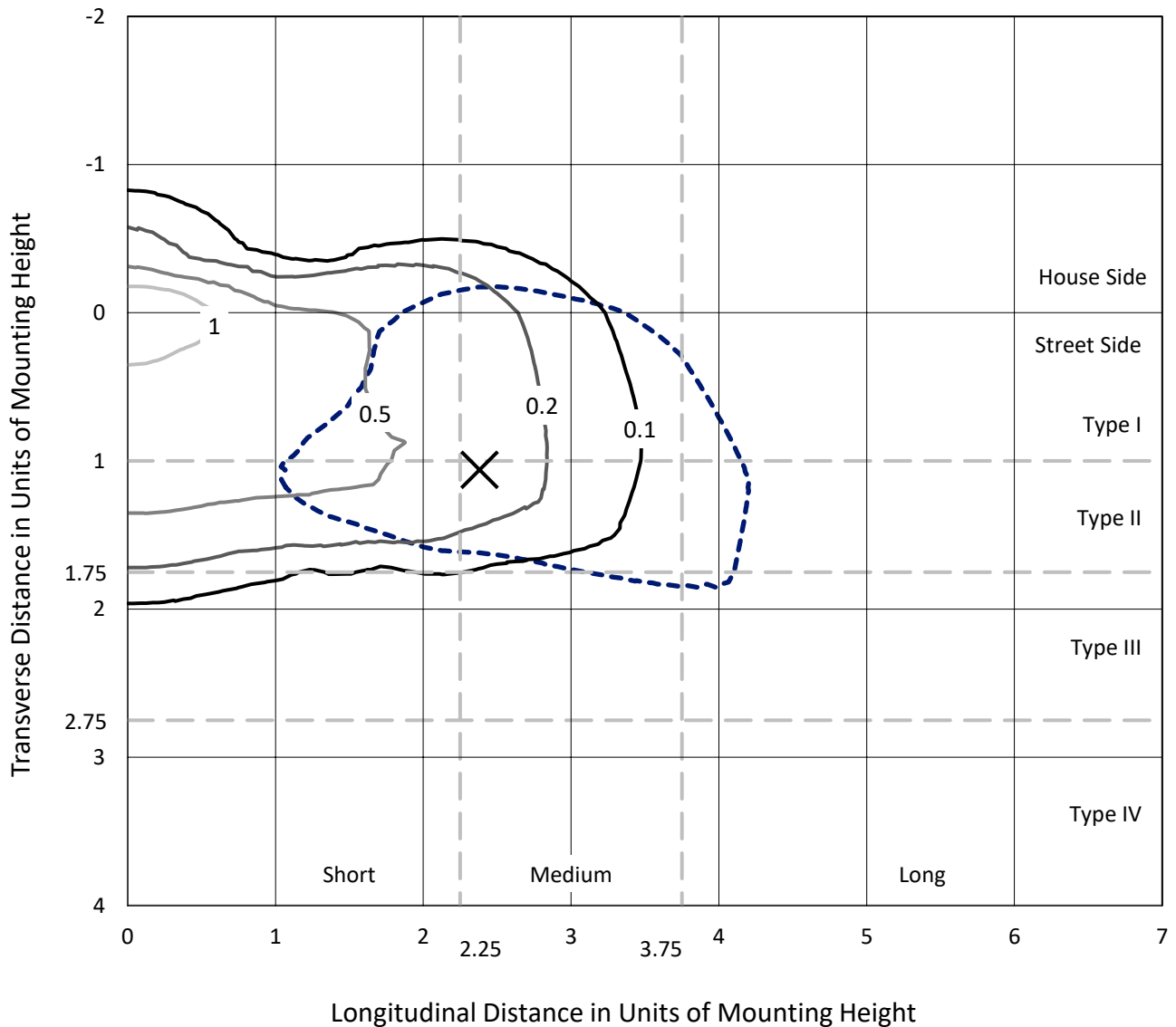
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P648207
 CATALOG NUMBER: GALN-SA1B-835-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

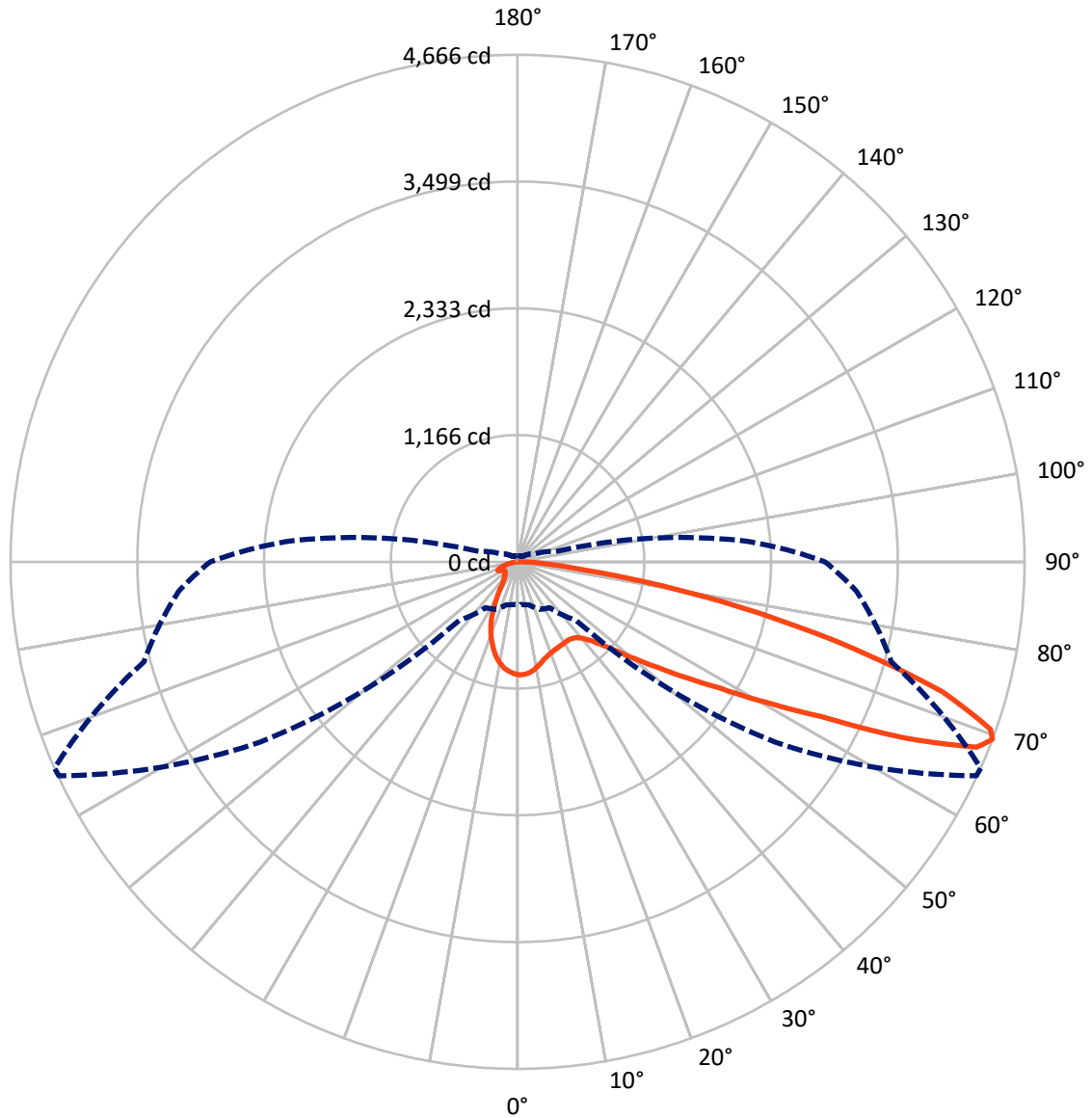
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type III - Medium - N/A

REPORT NUMBER: P648207
CATALOG NUMBER: GALN-SA1B-835-U-SL2

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P648207
 CATALOG NUMBER: GALN-SA1B-835-U-SL2

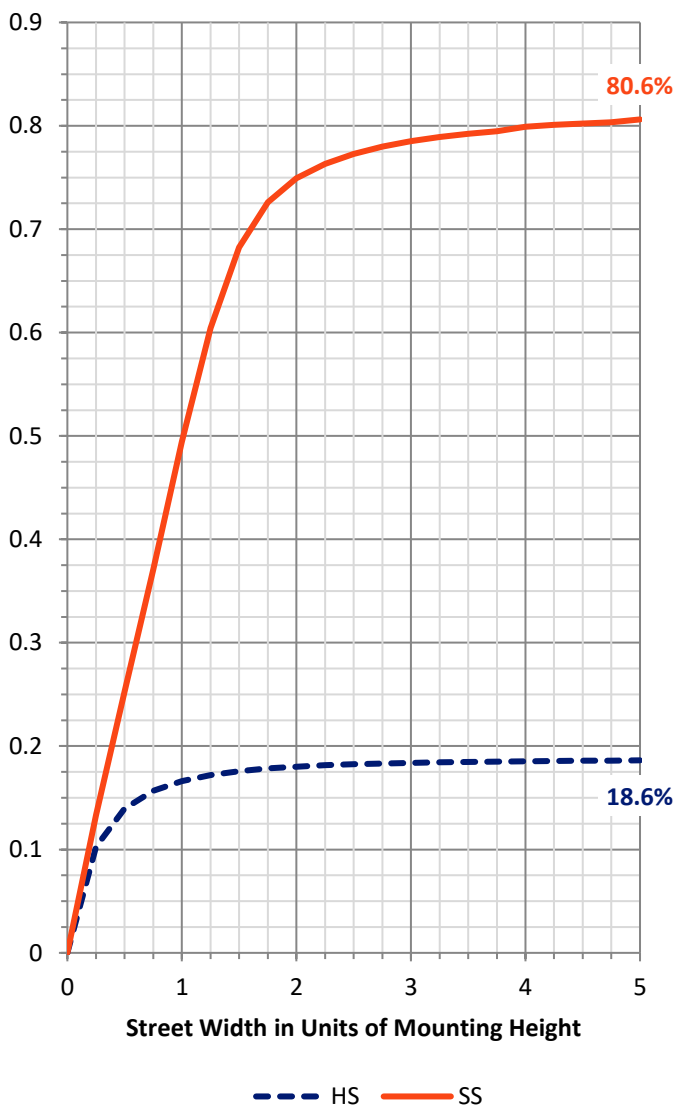
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	846.3	0.0	846.3
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	3653.6	0.0	3653.6
	% Fixture	81.2	0.0	81.2
Total	Lumens	4499.9	0.0	4499.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.2	2.0
10°-20°	214.0	4.8
20°-30°	291.4	6.5
30°-40°	391.6	8.7
40°-50°	584.7	13.0
50°-60°	930.0	20.7
60°-70°	1143.9	25.4
70°-80°	744.2	16.5
80°-90°	109.9	2.4
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°	4499.9	100.0
0°-180°	4499.9	100.0

Coefficient of Utilization

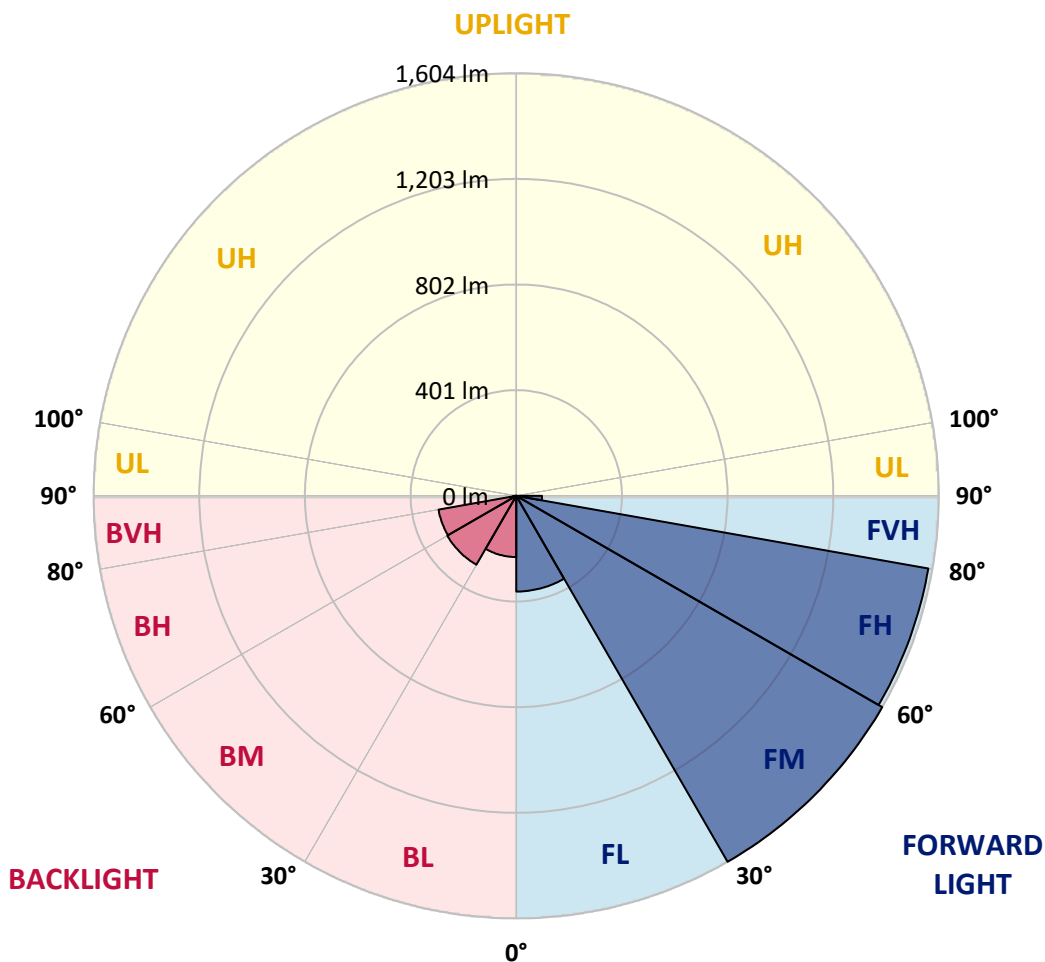


REPORT NUMBER: P648207
 CATALOG NUMBER: GALN-SA1B-835-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	363.4	8.1			
FM (30°-60°)	1604.1	35.6			
FH (60°-80°)	1588.5	35.3			G1/1800
FVH (80°-90°)	97.7	2.2			G1/100
BL (0°-30°)	232.3	5.2	B1/500		
BM (30°-60°)	302.2	6.7	B1/1000		
BH (60°-80°)	299.6	6.7	B1/500		G1/500
BVH (80°-90°)	12.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type III Medium





REPORT NUMBER: P648207

CATALOG NUMBER: GALN-SA1B-835-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1039.1	1039.1	1039.1	1039.1	1039.1	1039.1	1039.1	1039.1	1039.1	1039.1	1039.1
2.5°	1002.8	1006.8	1011.2	1016.3	1025.7	1030.9	1034.7	1038.9	1039.4	1041.6	1039.9
5°	928.8	933.5	940.2	949.7	963.9	986.1	1009.0	1027.7	1030.0	1040.4	1043.4
7.5°	866.9	869.7	875.2	890.3	910.6	935.2	968.6	1006.5	1012.0	1036.9	1045.6
10°	816.6	819.3	825.8	841.6	861.5	892.4	929.0	978.8	983.4	1026.2	1046.2
12.5°	779.0	781.5	788.5	803.9	826.8	855.7	896.1	948.9	955.4	1012.0	1041.4
15°	750.3	755.0	760.8	773.5	797.6	825.6	864.7	921.5	926.8	997.1	1038.2
17.5°	738.1	740.3	744.3	756.1	773.8	801.2	840.6	900.1	906.3	986.6	1037.4
20°	738.6	740.9	741.6	748.1	760.8	784.5	823.3	883.1	890.7	977.3	1038.6
22.5°	755.6	755.8	753.1	750.8	755.8	775.5	811.1	870.5	879.2	973.3	1039.7
25°	781.7	786.2	782.2	771.7	762.6	772.0	806.4	863.5	871.7	967.6	1038.4
27.5°	824.1	824.8	821.6	807.4	783.5	776.5	804.4	858.2	865.2	963.4	1032.2
30°	880.9	878.7	875.7	860.0	822.4	793.7	808.7	853.5	860.8	957.1	1024.7
32.5°	938.5	945.5	942.7	924.3	875.4	827.1	822.4	853.0	859.0	952.4	1016.5
35°	999.5	1002.8	1015.7	1006.2	956.2	881.2	848.0	860.8	865.4	952.7	1010.8
37.5°	1047.3	1056.1	1086.5	1094.7	1047.7	952.7	889.6	882.7	884.6	964.9	1013.0
40°	1105.2	1120.2	1159.2	1192.9	1162.0	1045.6	960.4	923.3	925.7	994.3	1027.7
42.5°	1178.4	1188.9	1241.5	1287.1	1282.1	1168.5	1046.2	989.8	991.0	1052.8	1068.8
45°	1264.2	1279.1	1338.2	1406.7	1418.4	1307.5	1170.0	1090.5	1089.7	1143.8	1145.5
47.5°	1373.9	1383.0	1441.6	1516.4	1563.7	1482.2	1320.2	1235.0	1227.0	1276.4	1262.2
50°	1474.8	1489.2	1533.6	1615.3	1733.2	1686.8	1517.8	1422.4	1403.8	1449.8	1425.9
52.5°	1517.1	1532.3	1569.7	1671.1	1878.4	1951.5	1768.8	1645.9	1614.8	1650.2	1641.5
55°	1443.6	1463.3	1498.2	1621.5	1942.2	2256.8	2107.2	1904.3	1881.7	1866.5	1868.9
57.5°	1246.0	1264.7	1311.8	1447.8	1866.0	2478.3	2590.4	2236.6	2187.9	2117.9	2129.9
60°	948.4	960.2	984.5	1135.4	1640.0	2535.8	3139.1	2656.4	2625.6	2368.3	2376.9
62.5°	673.6	686.8	703.8	779.0	1200.7	2373.6	3568.8	3242.8	3132.4	2627.7	2619.5
65°	547.0	538.0	558.4	593.6	704.5	1839.6	3665.5	4056.6	3904.7	2969.4	2855.3
67.5°	449.8	440.4	460.5	523.0	535.8	1067.8	3317.1	4585.0	4554.6	3341.0	3094.8
69°	398.2	393.2	410.9	482.2	514.4	758.3	2889.7	4658.5	4665.7	3560.1	3131.7
70°	358.8	360.8	378.0	461.5	504.6	625.2	2469.8	4557.1	4618.4	3669.5	3091.8
72.5°	264.2	268.4	292.3	382.3	495.4	530.6	1469.8	3980.5	4088.8	3675.9	2828.4
75°	184.6	182.7	203.8	287.8	468.0	525.8	863.3	3078.4	3201.2	3177.3	2376.6
77.5°	120.9	124.1	141.0	203.3	393.7	521.8	562.7	2183.9	2263.7	2124.9	1405.7
80°	85.2	85.0	94.4	138.8	292.1	501.4	460.8	1376.6	1356.4	835.1	416.9
82.5°	48.9	52.3	63.3	97.7	195.4	441.3	423.9	658.3	601.0	238.0	140.8
85°	27.2	28.4	37.7	59.0	114.2	332.5	370.0	299.5	282.6	99.4	60.5
87.5°	8.7	9.5	15.7	29.9	51.8	157.0	209.6	138.3	127.6	35.9	24.4
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: P648207
 CATALOG NUMBER: GALN-SA1B-835-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1039.1	1039.1	1039.1	1039.1	1039.1	1039.1	1039.1	1039.1	1039.1	1039.1	1039.1
2.5°	1040.7	1043.7	1035.7	1027.9	1021.0	1011.2	1002.6	995.3	990.3	989.6	987.0
5°	1044.1	1044.4	1029.2	1008.7	988.9	966.8	944.2	928.0	912.8	904.4	900.1
7.5°	1046.6	1044.4	1017.0	983.8	945.5	905.6	865.7	833.8	809.2	799.4	803.2
10°	1045.6	1038.6	998.6	945.5	889.6	830.1	772.7	727.9	686.8	665.6	666.1
12.5°	1040.1	1028.7	971.2	902.3	820.3	740.6	652.9	592.3	544.7	516.6	507.9
15°	1035.4	1015.5	939.0	843.8	741.9	628.0	521.1	446.3	406.5	384.3	384.0
17.5°	1030.4	1002.8	903.8	781.7	651.6	505.1	393.0	335.9	317.2	319.5	315.7
20°	1025.2	987.8	867.2	712.7	541.8	376.8	294.3	271.2	276.3	286.6	288.1
22.5°	1019.2	971.9	827.9	636.7	426.1	283.6	238.7	235.2	248.7	264.7	266.9
25°	1010.0	952.0	778.2	557.2	328.7	228.5	209.1	211.6	224.8	238.3	239.8
27.5°	997.1	927.2	728.2	458.1	247.0	196.1	191.1	194.3	200.8	209.1	211.1
30°	979.6	899.4	670.6	372.3	197.9	179.9	177.9	179.7	183.4	186.9	187.9
32.5°	962.2	872.4	612.5	285.1	176.4	169.2	167.2	167.2	167.2	167.7	168.0
35°	945.9	847.0	550.2	222.1	165.2	160.7	158.0	155.0	154.5	152.8	152.8
37.5°	937.0	823.9	484.0	185.9	157.0	153.8	150.0	145.0	142.3	142.5	142.0
40°	938.7	808.7	423.6	165.4	150.3	146.8	141.0	135.3	133.6	133.6	133.1
42.5°	958.4	803.7	365.8	154.7	143.8	139.8	132.6	127.3	126.4	126.1	126.6
45°	1003.7	815.9	314.0	147.8	138.3	132.3	125.1	120.3	119.3	119.3	119.1
47.5°	1092.2	855.5	276.9	143.3	134.3	126.6	119.1	114.4	112.7	112.1	112.1
50°	1229.8	941.5	249.2	139.3	129.4	121.4	113.6	108.1	105.4	105.2	104.9
52.5°	1420.9	1075.5	238.5	136.3	123.9	115.9	107.4	102.2	98.7	98.0	97.4
55°	1644.5	1262.7	253.2	134.0	118.2	109.6	100.9	95.4	92.2	90.7	90.4
57.5°	1903.4	1487.5	309.0	131.1	112.9	102.9	94.4	88.9	85.5	83.7	83.2
60°	2135.9	1718.5	406.5	129.4	108.4	95.7	87.0	82.0	78.8	77.0	76.7
62.5°	2391.3	1938.8	522.8	134.0	106.4	88.7	80.0	75.5	72.7	71.0	71.0
65°	2664.2	2159.3	599.9	150.0	109.4	83.2	72.5	68.7	66.3	65.1	64.8
67.5°	2848.1	2235.5	494.2	166.5	116.9	77.3	65.3	62.3	60.8	59.6	59.6
69°	2828.1	2139.1	364.6	170.7	119.1	74.2	61.3	59.0	57.1	56.5	56.1
70°	2765.1	2029.2	305.5	168.0	117.4	71.5	58.8	56.1	54.3	53.8	53.6
72.5°	2462.8	1759.8	227.5	146.0	99.9	62.0	52.1	49.6	48.1	47.4	47.4
75°	2046.1	1438.4	177.7	116.1	78.2	52.3	44.6	42.6	41.3	40.9	40.6
77.5°	1146.8	803.2	127.6	91.0	59.3	42.4	37.3	35.6	34.4	33.9	33.9
80°	319.5	229.5	75.0	60.1	40.4	32.2	29.7	28.4	26.7	25.4	26.2
82.5°	120.3	99.4	42.8	36.1	25.7	21.5	20.7	19.7	18.9	17.2	17.2
85°	58.6	48.3	27.4	19.2	14.2	11.2	10.7	10.2	9.7	8.5	8.7
87.5°	20.2	21.5	12.0	7.0	4.2	2.7	2.3	1.3	1.3	1.3	1.3
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)