

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: STREETWORKS

Report Number: P450847

Luminaire Tested: **GLAN-SA1C-830-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450847
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA1C-830-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4526 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

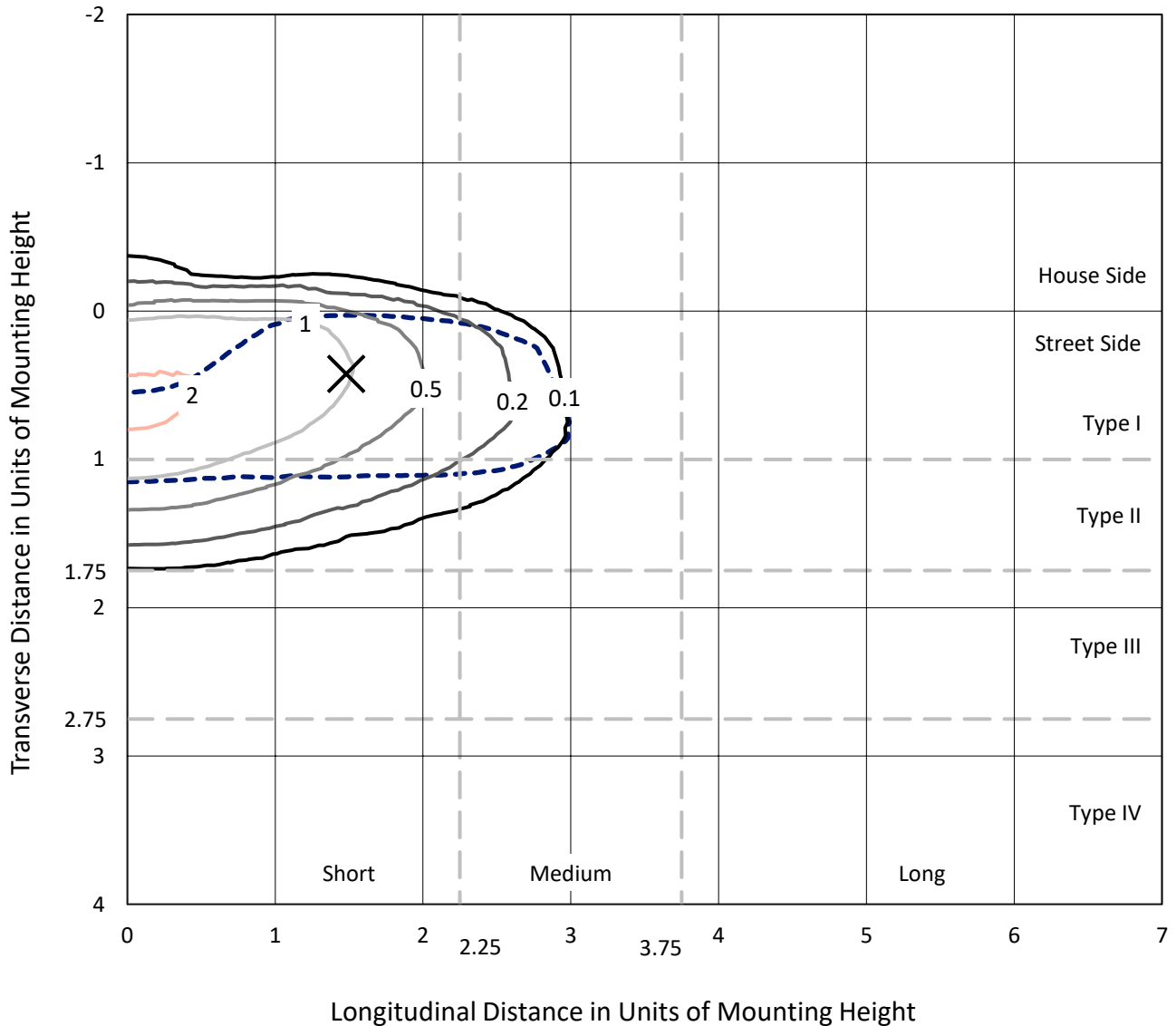
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P450847
 CATALOG NUMBER: GLAN-SA1C-830-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

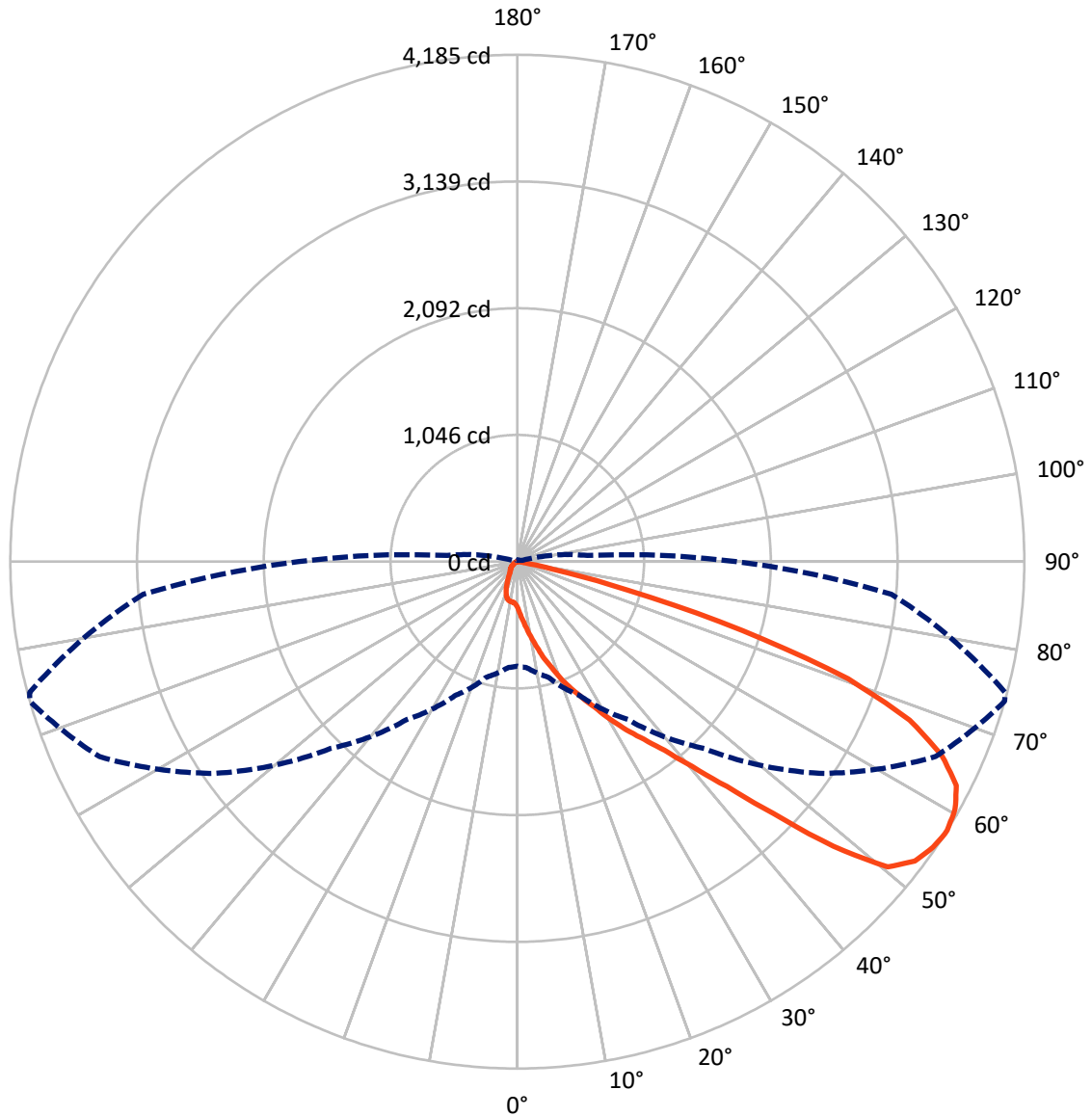
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type II - Short - N/A

REPORT NUMBER: P450847
CATALOG NUMBER: GLAN-SA1C-830-U-T2R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

REPORT NUMBER: P450847

CATALOG NUMBER: GLAN-SA1C-830-U-T2R-HSS

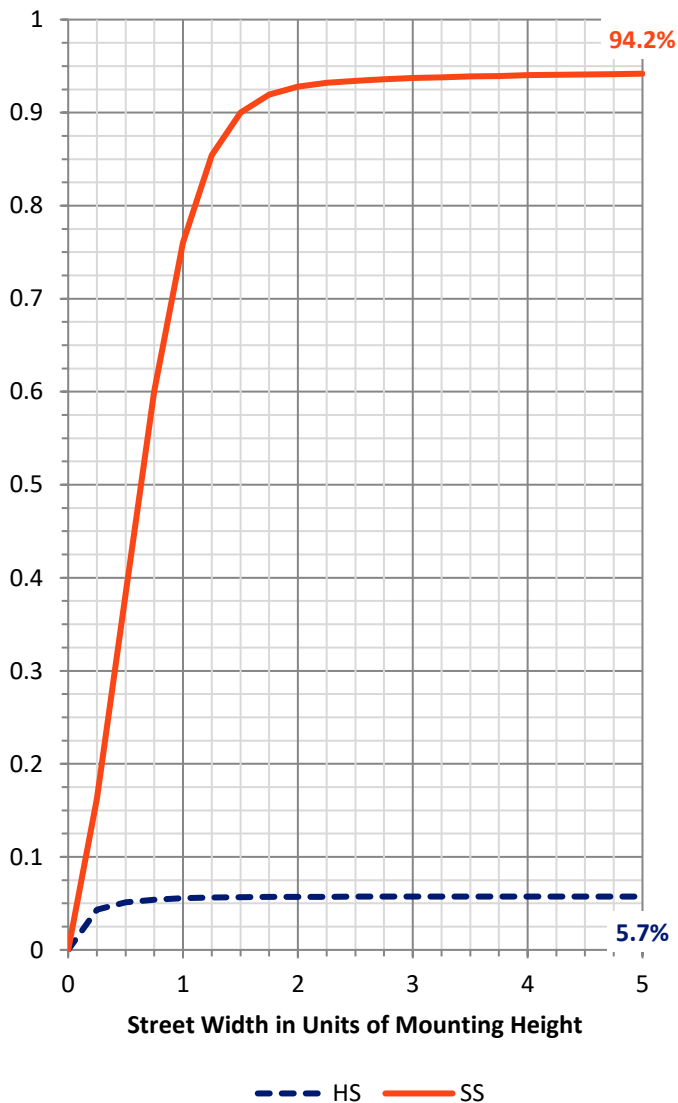
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	261.0	0.0	261.0
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	4264.9	0.0	4264.9
	% Fixture	94.2	0.0	94.2
Total	Lumens	4526.0	0.0	4526.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.8	1.0
10°-20°	180.3	4.0
20°-30°	385.9	8.5
30°-40°	709.2	15.7
40°-50°	1087.3	24.0
50°-60°	1150.2	25.4
60°-70°	751.1	16.6
70°-80°	205.2	4.5
80°-90°	11.0	0.2
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°	4526.0	100.0
0°-180°	4526.0	100.0

Coefficient of Utilization



REPORT NUMBER: P450847

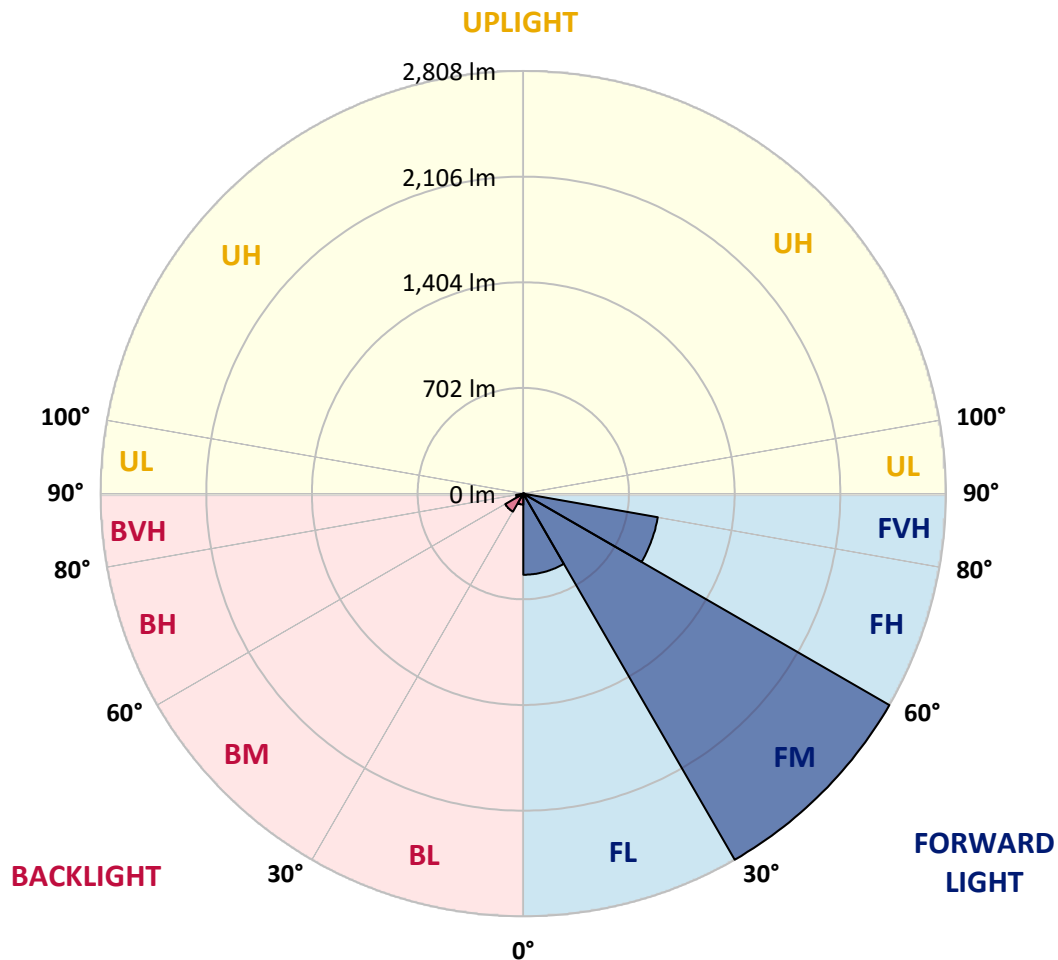
CATALOG NUMBER: GLAN-SA1C-830-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	539.0	11.9			
FM (30°-60°)	2808.5	62.1			
FH (60°-80°)	907.3	20.0			G1/1800
FVH (80°-90°)	10.1	0.2			G1/100
BL (0°-30°)	72.9	1.6	B0/110		
BM (30°-60°)	138.2	3.1	B0/220		
BH (60°-80°)	49.0	1.1	B0/110		G0/110
BVH (80°-90°)	0.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Short





REPORT NUMBER: P450847

CATALOG NUMBER: GLAN-SA1C-830-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	379.0	379.0	379.0	379.0	379.0	379.0	379.0	379.0	379.0	379.0	379.0
2.5°	554.7	549.7	539.7	536.2	521.5	498.7	478.7	451.9	430.6	428.4	402.8
5°	742.8	731.5	726.8	704.3	669.0	635.9	579.0	535.9	486.2	482.5	430.9
7.5°	924.0	908.4	903.7	882.5	841.2	789.0	715.3	636.8	558.1	550.9	468.7
10°	1055.3	1057.5	1049.0	1035.0	1001.5	948.4	857.5	750.3	638.1	629.0	511.2
12.5°	1149.3	1149.0	1150.6	1150.3	1132.5	1092.1	996.5	873.1	726.2	708.4	560.0
15°	1210.6	1211.5	1216.2	1232.4	1234.3	1209.3	1129.6	990.6	828.4	806.2	612.8
17.5°	1272.4	1279.0	1286.5	1301.8	1315.6	1305.6	1249.3	1113.1	920.9	904.3	669.3
20°	1374.6	1383.7	1379.3	1388.7	1395.9	1396.8	1353.4	1226.2	1033.1	1005.3	734.0
22.5°	1538.1	1537.7	1526.5	1509.6	1495.6	1494.9	1455.6	1342.4	1135.0	1108.1	799.0
25°	1744.6	1745.6	1723.7	1675.6	1640.6	1597.7	1552.4	1444.3	1244.0	1210.9	867.5
27.5°	1981.5	1975.5	1942.4	1876.2	1806.8	1733.7	1668.4	1562.7	1359.6	1332.1	945.9
30°	2194.3	2192.1	2153.3	2072.4	1981.2	1907.7	1813.0	1711.2	1509.3	1475.6	1033.7
32.5°	2392.4	2395.5	2341.8	2258.0	2169.9	2085.2	1985.2	1853.0	1656.2	1608.4	1129.3
35°	2547.1	2550.2	2494.6	2424.9	2334.3	2264.0	2168.7	2004.3	1801.2	1760.9	1239.3
37.5°	2629.6	2633.6	2601.5	2549.0	2492.4	2457.1	2368.3	2199.0	1977.4	1953.0	1369.3
40°	2645.2	2649.9	2635.8	2621.8	2618.6	2644.0	2618.0	2428.3	2221.8	2183.7	1563.1
42.5°	2598.3	2604.6	2610.8	2642.1	2705.8	2798.6	2888.9	2739.6	2536.5	2485.2	1799.9
45°	2475.2	2474.6	2499.3	2580.2	2723.0	2921.1	3172.1	3129.2	2965.2	2904.3	2134.6
47.5°	2264.6	2261.5	2314.9	2430.2	2652.7	2943.6	3403.0	3602.3	3512.4	3456.1	2494.3
50°	1943.7	1959.0	2043.0	2204.0	2478.0	2875.5	3474.2	3912.6	3961.4	3901.7	2784.9
52.5°	1567.7	1567.1	1699.0	1917.4	2219.3	2725.5	3424.5	3968.9	4107.3	4061.7	2928.0
55°	1160.3	1168.4	1305.6	1525.9	1883.4	2451.8	3262.4	3911.1	4163.0	4130.8	3022.4
57°	863.1	877.5	987.5	1220.6	1590.9	2180.8	3046.4	3807.7	4184.8	4167.3	3100.8
57.5°	805.6	806.2	913.4	1125.3	1505.2	2076.8	2984.6	3764.5	4184.2	4174.5	3113.6
60°	495.9	511.5	585.6	760.6	1101.8	1620.9	2569.9	3516.7	4151.7	4165.8	3168.3
62.5°	296.9	303.4	351.5	458.4	710.3	1183.1	2103.0	3199.6	4067.0	4109.8	3164.6
65°	190.9	192.5	214.4	277.5	444.0	799.7	1620.6	2780.5	3848.0	3926.7	3040.8
67.5°	147.5	150.0	158.7	182.2	257.5	498.1	1146.2	2333.3	3493.6	3595.2	2740.8
70°	130.9	132.2	135.3	142.8	170.3	281.2	713.1	1822.7	2897.1	2925.8	2144.9
72.5°	106.9	110.3	120.0	122.5	135.0	175.6	396.9	1223.4	1946.5	1953.7	1199.9
75°	82.8	83.4	97.8	105.0	113.7	120.9	177.2	616.8	935.0	885.0	462.5
77.5°	61.9	64.7	71.2	80.3	92.8	86.6	79.4	232.5	290.3	285.0	134.4
80°	39.7	41.2	49.7	60.3	72.2	56.6	44.7	68.1	63.7	65.6	32.2
82.5°	20.0	20.3	31.9	49.1	45.9	28.4	28.1	27.8	23.7	23.4	15.0
85°	2.2	4.7	20.6	28.1	20.6	9.4	13.1	12.8	12.5	12.8	8.7
87.5°	0.3	0.3	3.4	4.1	2.8	3.1	3.7	4.1	5.0	4.7	3.7
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: P450847
 CATALOG NUMBER: GLAN-SA1C-830-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	379.0	379.0	379.0	379.0	379.0	379.0	379.0	379.0	379.0	379.0	379.0
2.5°	390.3	377.8	354.7	332.5	315.9	305.3	291.6	286.6	279.4	278.4	275.0
5°	407.2	383.4	343.1	311.2	285.6	266.2	249.4	235.3	224.1	221.6	222.8
7.5°	431.2	395.9	339.7	296.2	260.6	227.5	200.6	184.1	172.2	167.8	168.4
10°	458.4	412.5	339.0	280.3	225.9	185.3	155.9	141.2	134.4	131.9	129.1
12.5°	490.6	431.5	337.5	255.6	187.8	147.8	126.9	118.1	111.6	109.7	109.7
15°	526.9	451.9	330.0	225.0	152.5	122.2	108.1	101.2	99.1	97.2	97.2
17.5°	564.7	471.9	314.4	187.2	126.6	104.7	95.9	91.9	88.7	86.6	86.6
20°	607.8	491.5	289.4	153.7	106.9	93.4	86.6	81.9	79.4	77.5	76.9
22.5°	648.7	507.5	257.5	126.2	93.1	84.1	77.8	72.8	70.3	69.4	69.4
25°	691.2	517.2	219.1	104.4	85.0	76.2	69.4	65.3	63.1	62.5	62.2
27.5°	732.5	522.8	185.3	91.2	77.5	69.1	62.5	59.4	57.2	56.6	56.9
30°	782.5	523.7	152.5	81.9	70.9	62.2	56.2	53.4	52.2	51.6	51.2
32.5°	833.1	522.5	128.1	76.2	64.7	56.2	51.2	49.1	48.1	47.2	47.2
35°	890.0	515.9	109.1	70.6	58.7	51.2	46.9	45.0	43.7	42.8	42.5
37.5°	960.6	512.5	98.1	64.4	53.4	46.6	42.5	40.6	39.7	38.4	38.1
40°	1071.8	527.8	94.7	58.7	48.1	42.2	38.4	36.2	35.0	33.7	33.4
42.5°	1210.6	554.7	89.1	53.1	43.4	38.1	34.4	31.9	29.7	28.1	27.5
45°	1390.3	590.0	80.3	47.2	39.4	33.7	30.3	27.2	24.4	23.1	22.8
47.5°	1578.7	624.0	72.5	42.5	35.0	30.0	26.2	22.8	20.3	19.4	19.1
50°	1694.3	630.9	67.5	37.2	30.6	25.9	22.2	19.1	17.5	16.6	16.6
52.5°	1747.1	620.0	60.6	32.5	26.6	22.8	19.1	16.6	15.6	15.0	14.7
55°	1784.0	603.1	51.6	28.1	22.8	19.4	16.9	15.0	13.7	13.1	12.8
57°	1805.5	580.3	44.7	24.7	19.7	16.9	15.0	13.4	12.2	10.9	10.9
57.5°	1806.5	571.5	42.8	24.4	18.7	16.2	14.7	13.1	11.6	10.3	10.0
60°	1778.7	511.5	34.4	20.6	15.0	13.7	12.2	10.3	8.1	6.9	6.6
62.5°	1689.3	435.3	28.4	17.5	12.2	10.6	8.7	7.8	5.6	4.1	4.1
65°	1554.0	353.1	24.4	14.1	10.0	7.8	5.9	5.6	3.4	1.9	1.6
67.5°	1358.4	275.0	20.6	11.6	8.4	5.6	4.1	3.7	1.9	0.6	0.0
70°	1035.0	187.5	17.2	9.4	6.2	4.1	2.8	2.2	1.2	0.3	0.0
72.5°	596.5	103.1	14.4	7.2	4.7	3.1	2.2	1.2	1.2	0.0	0.0
75°	213.1	44.4	10.9	5.3	3.7	2.5	1.6	0.6	0.9	0.3	0.0
77.5°	67.8	23.7	7.2	4.1	3.1	1.9	1.2	0.6	0.6	0.3	0.0
80°	20.0	12.5	4.4	3.4	2.2	1.6	0.9	0.3	0.6	0.3	0.0
82.5°	10.9	6.2	3.4	2.5	2.2	1.2	0.9	0.3	0.3	0.3	0.0
85°	5.6	3.7	2.8	2.5	2.2	1.2	0.9	0.3	0.0	0.3	0.3
87.5°	3.1	2.8	2.8	2.5	2.2	1.6	0.9	0.3	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)