

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: P653493

Luminaire Tested: **GLAN-SA7D-840-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P653493
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA7D-840-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44356 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

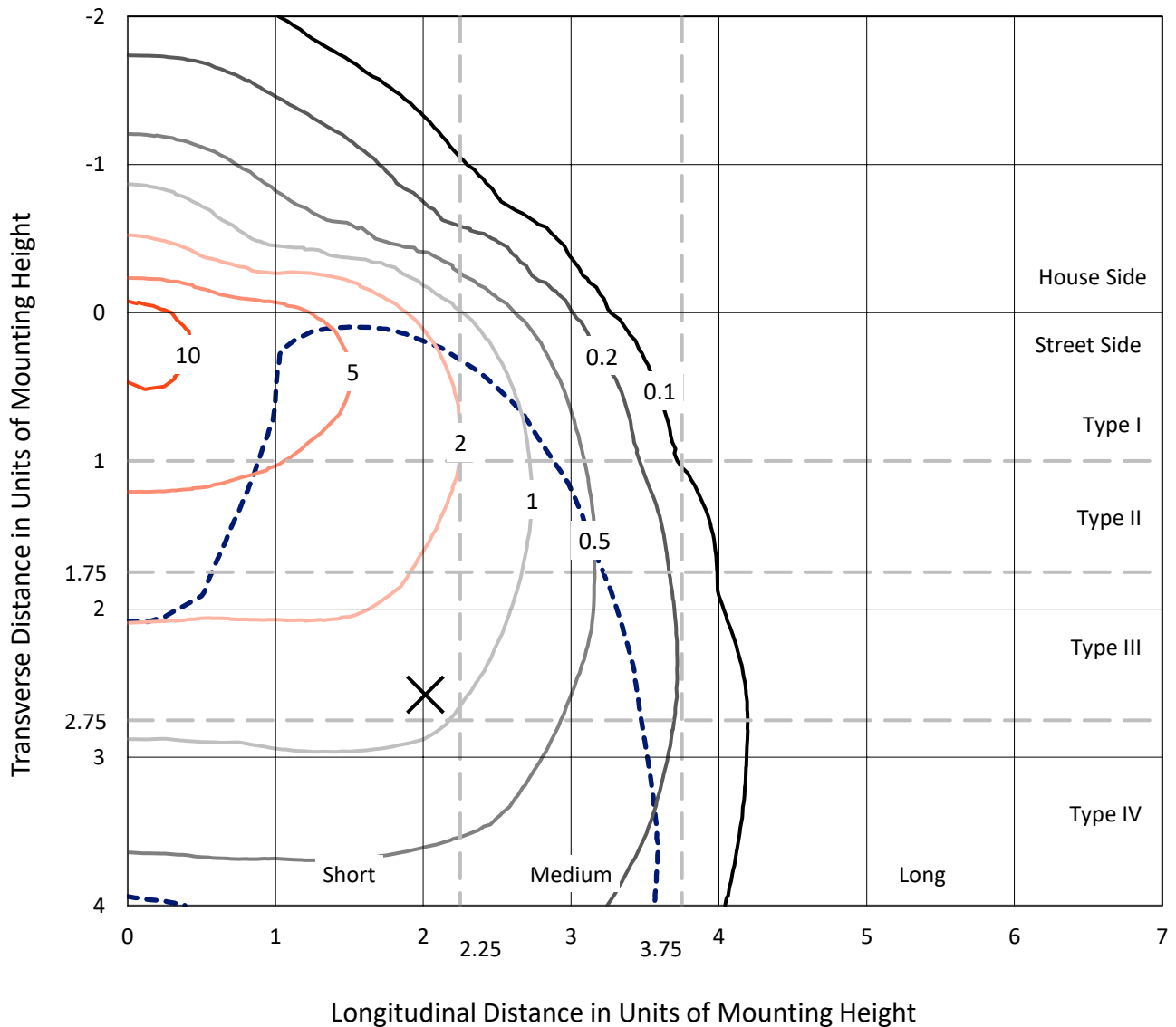
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P653493
 CATALOG NUMBER: GLAN-SA7D-840-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

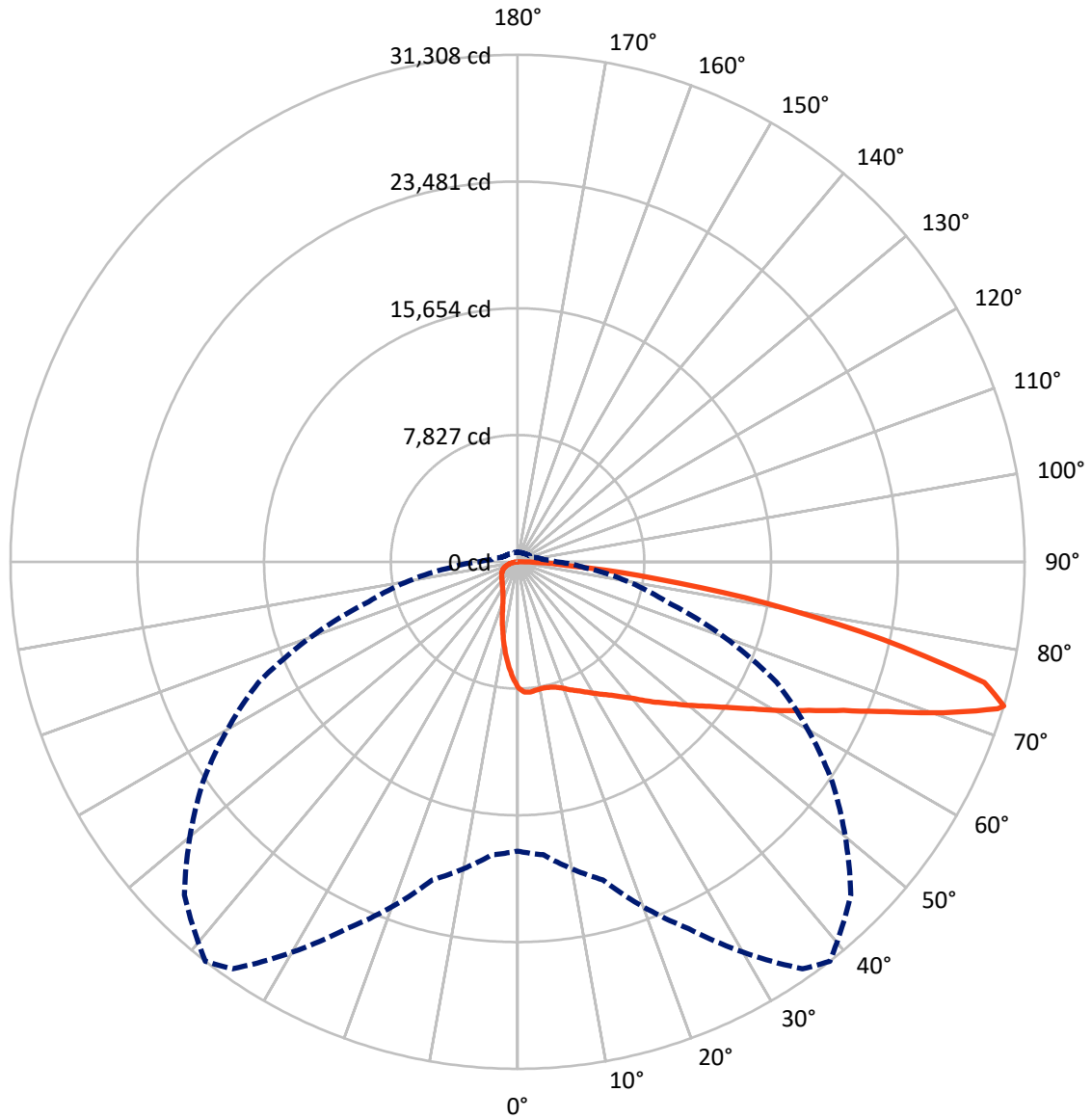
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
 Type IV - Short - N/A

REPORT NUMBER: P653493
CATALOG NUMBER: GLAN-SA7D-840-U-SL4

Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

REPORT NUMBER: P653493
 CATALOG NUMBER: GLAN-SA7D-840-U-SL4

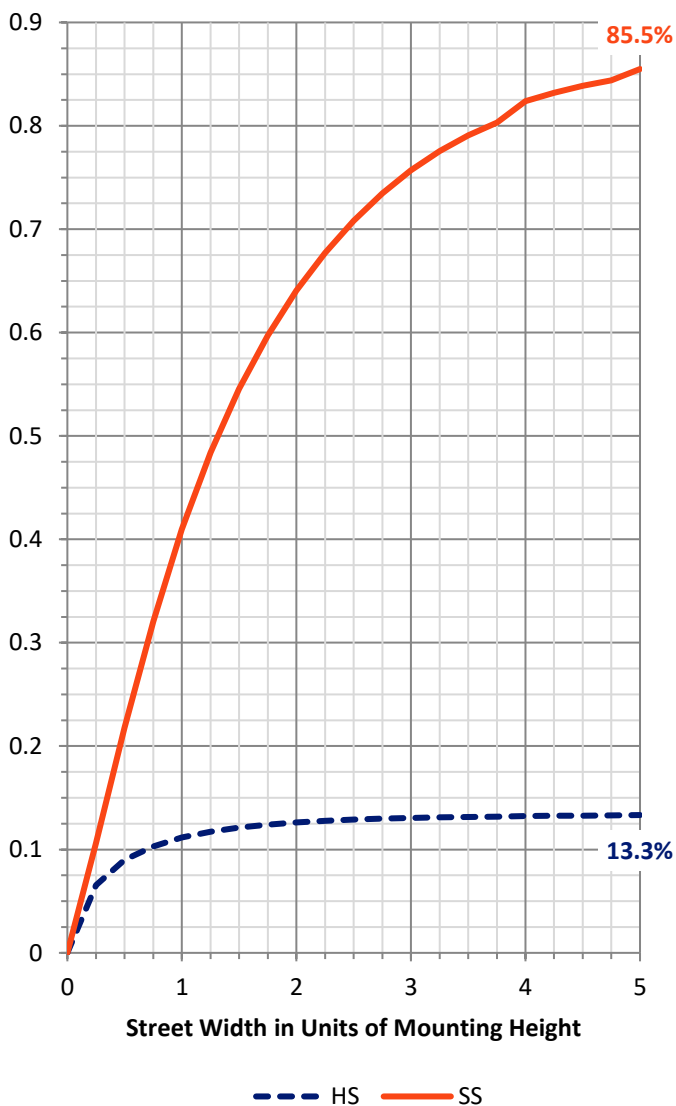
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5962.8	0.0	5962.8
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	38393.3	0.0	38393.3
	% Fixture	86.6	0.0	86.6
Total	Lumens	44356.0	0.0	44356.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	680.2	1.5
10°-20°	1744.3	3.9
20°-30°	2716.2	6.1
30°-40°	3984.0	9.0
40°-50°	5909.8	13.3
50°-60°	8373.0	18.9
60°-70°	10621.4	23.9
70°-80°	8841.5	19.9
80°-90°	1485.5	3.3
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°	44356.0	100.0
0°-180°	44356.0	100.0



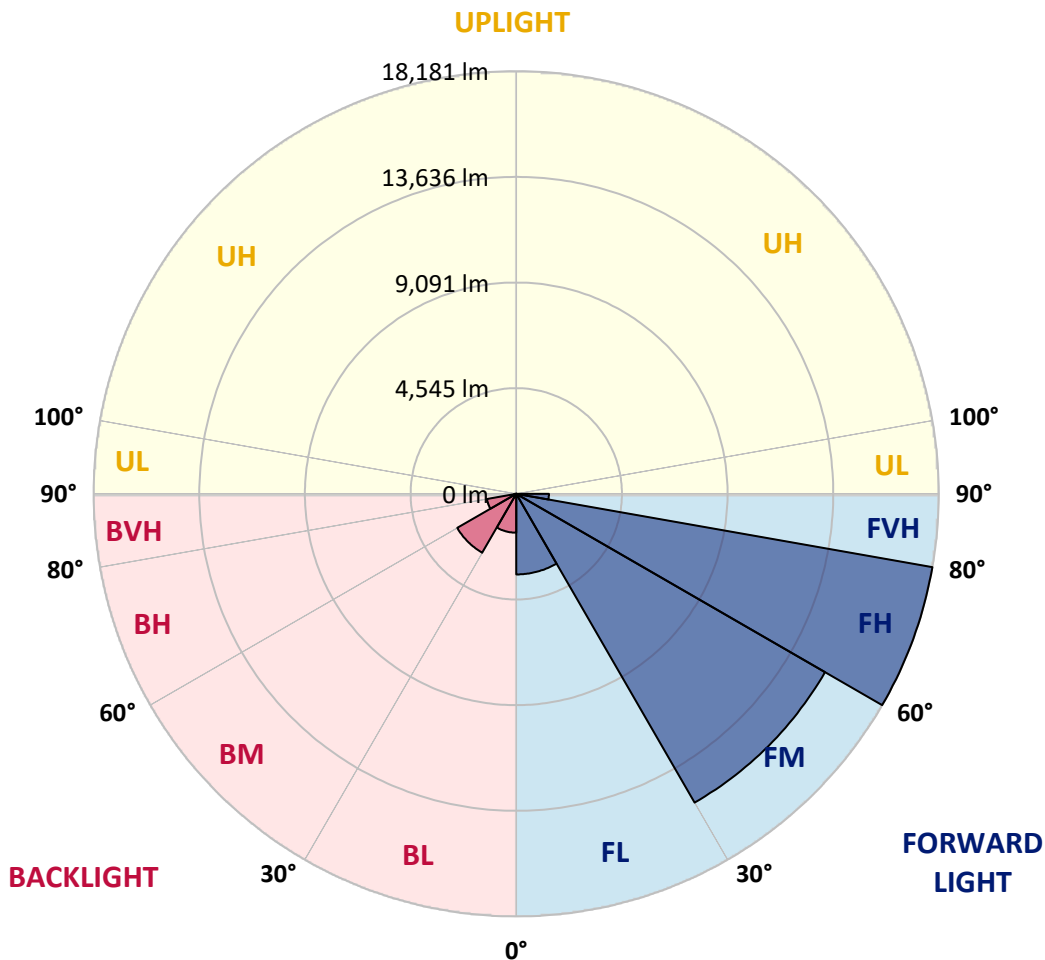
REPORT NUMBER: P653493
 CATALOG NUMBER: GLAN-SA7D-840-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3467.4	7.8			
FM (30°-60°)	15339.5	34.6			
FH (60°-80°)	18181.3	41.0			G5
FVH (80°-90°)	1405.0	3.2			G5
BL (0°-30°)	1673.2	3.8	B3/2500		
BM (30°-60°)	2927.3	6.6	B3/5000		
BH (60°-80°)	1281.6	2.9	B3/2500		G3/2500
BVH (80°-90°)	80.6	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 IV Short





REPORT NUMBER: P653493
 CATALOG NUMBER: GLAN-SA7D-840-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	7792.6	7792.6	7792.6	7792.6	7792.6	7792.6	7792.6	7792.6	7792.6	7792.6	7792.6
2.5°	8105.7	8145.8	8125.7	8098.2	8080.7	8063.1	8038.1	7965.4	7907.8	7845.2	7747.5
5°	8165.9	8190.8	8173.3	8138.3	8098.2	8080.7	8033.1	7937.9	7845.2	7740.0	7594.7
7.5°	8130.8	8140.8	8120.7	8078.1	8043.1	8010.5	7955.4	7850.2	7737.5	7609.8	7419.4
10°	8005.5	8043.1	8043.1	8008.0	7972.9	7955.4	7900.3	7800.1	7697.4	7552.1	7326.7
12.5°	7902.8	7942.9	7975.5	7965.4	7962.9	7962.9	7920.4	7845.2	7725.0	7587.2	7319.2
15°	7832.7	7880.3	7950.4	7990.5	8015.6	8023.1	8005.5	7940.4	7817.7	7657.3	7349.2
17.5°	7817.7	7875.3	8003.0	8090.7	8155.8	8153.3	8148.3	8058.1	7922.9	7757.6	7386.8
20°	7885.3	7960.4	8138.3	8276.0	8371.2	8353.7	8326.2	8208.4	8050.6	7865.2	7421.9
22.5°	8088.1	8165.9	8361.2	8511.5	8604.2	8604.2	8521.5	8366.2	8198.4	7990.5	7469.5
25°	8378.7	8463.9	8671.8	8824.6	8867.2	8834.6	8752.0	8564.1	8371.2	8170.8	7569.7
27.5°	8734.5	8837.1	9030.0	9157.7	9145.2	9120.1	9035.0	8794.5	8601.7	8418.8	7740.0
30°	9177.7	9252.9	9453.3	9483.4	9438.3	9433.2	9313.1	9072.5	8892.2	8752.0	7982.9
32.5°	9596.1	9663.8	9824.1	9836.6	9756.4	9766.4	9653.7	9433.2	9330.6	9280.5	8391.2
35°	10039.4	10074.5	10212.3	10197.3	10144.6	10137.2	10092.1	9881.7	9914.2	10004.4	8969.9
37.5°	10410.2	10480.3	10558.0	10570.4	10568.0	10593.1	10623.1	10522.9	10710.7	10993.8	9728.9
40°	10750.8	10811.0	10926.2	10966.2	11063.9	11114.1	11216.8	11219.3	11652.6	12118.5	10663.1
42.5°	10981.3	11084.0	11299.4	11372.0	11610.0	11760.3	11913.1	12075.9	12704.7	13303.3	11765.3
45°	11181.7	11316.9	11675.1	11900.6	12223.7	12406.5	12729.6	13070.3	13974.6	14758.6	12885.0
47.5°	11484.8	11605.0	12015.8	12414.1	12902.5	13112.9	13596.4	14104.8	15287.1	16146.3	13957.1
50°	11905.5	11978.2	12396.5	13045.3	13669.0	13939.5	14578.2	15312.2	16689.8	17516.4	14898.9
52.5°	12444.1	12474.1	12807.3	13671.5	14493.1	14828.8	15675.4	16532.0	17917.3	18706.3	15645.3
55°	13080.3	13030.3	13290.7	14335.3	15434.9	15873.3	16782.5	17767.0	19297.4	19668.1	16188.9
57.5°	13709.1	13631.4	13839.3	15141.9	16597.1	17125.7	18185.3	19039.4	20529.8	20567.3	16569.6
60°	14375.4	14317.8	14565.7	16088.7	18022.5	18648.7	19628.0	20359.4	21722.1	21193.5	16629.8
62.5°	15059.2	14966.5	15319.7	17153.2	19628.0	20196.6	21146.0	21762.1	22891.9	21426.5	16051.1
65°	15723.0	15680.4	16226.4	18418.2	21456.6	22102.8	23024.6	23443.0	23828.6	21075.9	14615.8
67.5°	16429.4	16514.5	17386.2	20106.5	23841.2	24652.7	25647.2	25254.0	24096.7	19415.2	12308.9
70°	17506.4	17561.5	18909.1	22318.3	26914.7	27894.0	28375.0	25897.7	22804.2	16261.5	9252.9
72.5°	17969.8	18212.8	20269.3	24640.3	30406.4	31005.1	29291.8	24462.4	18996.8	11046.4	4861.9
73°	17867.1	18157.7	20331.9	24993.4	30679.4	31308.2	29096.4	23723.4	17659.2	9513.5	4168.1
75°	16587.1	16945.3	19517.8	24697.9	30148.4	29772.7	25955.3	20219.2	11933.1	4325.9	1898.6
77.5°	13087.9	13190.6	15465.0	19943.6	23741.0	23044.7	19425.2	12637.0	4874.4	1608.1	1077.1
80°	6565.2	6943.5	8716.9	11424.6	15875.7	15647.8	12261.3	5976.6	2031.4	944.4	713.9
82.5°	3158.6	3426.7	4245.7	5570.8	8772.0	8564.1	6071.8	3266.4	1290.0	551.1	420.8
85°	2034.0	2234.4	2702.7	2657.6	3607.0	3444.1	2727.8	2472.3	764.0	288.0	293.1
87.5°	1342.6	1470.3	1763.4	1410.3	1312.5	1187.3	1204.8	1392.7	150.3	110.3	40.1
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: P653493
 CATALOG NUMBER: GLAN-SA7D-840-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7792.6	7792.6	7792.6	7792.6	7792.6	7792.6	7792.6	7792.6	7792.6	7792.6	7792.6
2.5°	7707.4	7674.9	7567.1	7461.9	7361.8	7266.6	7203.9	7121.3	7066.2	7081.2	7103.8
5°	7514.6	7441.9	7251.5	7066.2	6890.8	6682.9	6515.1	6379.8	6277.1	6239.6	6232.1
7.5°	7311.7	7189.0	6915.9	6597.8	6299.7	6041.7	5743.6	5595.8	5423.0	5362.9	5342.9
10°	7189.0	7023.6	6640.4	6197.0	5748.7	5320.3	4997.2	4734.2	4496.2	4451.2	4428.6
12.5°	7153.9	6936.0	6419.9	5848.8	5252.7	4726.7	4248.2	3902.6	3672.1	3619.5	3541.9
15°	7133.9	6863.3	6214.6	5498.1	4741.7	4100.5	3597.0	3193.7	2983.3	2843.0	2845.5
17.5°	7116.3	6780.6	5984.1	5114.9	4300.9	3561.9	3005.8	2642.6	2449.7	2374.6	2367.1
20°	7091.2	6682.9	5718.5	4711.6	3797.4	3070.9	2567.5	2296.9	2166.7	2104.1	2101.6
22.5°	7081.2	6587.8	5458.1	4300.9	3351.5	2692.7	2276.9	2086.5	2003.9	1961.3	1961.3
25°	7106.3	6520.1	5185.0	3910.1	2955.7	2369.6	2076.5	1946.2	1898.6	1876.1	1868.6
27.5°	7183.9	6490.1	4914.6	3519.3	2592.6	2149.2	1941.3	1851.1	1816.1	1798.5	1801.0
30°	7331.7	6487.6	4649.0	3133.6	2322.0	1981.3	1833.5	1770.9	1743.4	1733.4	1730.9
32.5°	7569.7	6542.6	4388.5	2815.4	2094.1	1841.0	1733.4	1688.3	1675.8	1668.2	1665.8
35°	7972.9	6698.0	4130.5	2524.9	1918.7	1715.8	1638.2	1615.6	1598.1	1605.6	1608.1
37.5°	8516.5	6966.0	3885.0	2296.9	1785.9	1623.1	1558.0	1538.0	1527.9	1535.5	1543.0
40°	9245.4	7351.8	3679.6	2114.1	1690.7	1545.5	1487.9	1470.3	1460.3	1472.8	1475.4
42.5°	10049.4	7797.6	3509.3	1971.3	1613.1	1480.3	1425.2	1405.2	1397.7	1405.2	1407.7
45°	10876.1	8316.1	3421.6	1868.6	1548.0	1432.8	1375.2	1352.6	1335.1	1330.0	1337.6
47.5°	11690.2	8767.0	3419.1	1806.0	1495.4	1390.2	1327.6	1302.5	1280.0	1267.5	1264.9
50°	12354.0	9125.2	3479.2	1778.5	1450.3	1342.6	1280.0	1254.9	1224.8	1199.9	1204.8
52.5°	12854.9	9358.1	3506.8	1765.9	1425.2	1292.5	1229.9	1207.3	1172.3	1139.7	1139.7
55°	13178.0	9413.2	3439.2	1753.4	1405.2	1239.9	1172.3	1152.3	1117.2	1084.6	1084.6
57.5°	13288.2	9242.9	3196.2	1723.4	1385.2	1194.8	1114.7	1097.1	1069.6	1037.0	1032.0
60°	13032.7	8666.8	2770.3	1633.1	1345.1	1147.2	1052.0	1044.5	1034.5	1006.9	1004.4
62.5°	12048.3	7444.4	2306.9	1515.4	1277.5	1097.1	994.4	1006.9	1014.5	999.4	996.9
65°	10410.2	6044.2	1971.3	1352.6	1187.3	1027.0	931.8	964.4	984.4	984.4	979.4
67.5°	8443.9	4641.5	1660.7	1212.4	1074.5	931.8	861.7	886.8	901.7	896.8	909.3
70°	6001.6	3143.6	1352.6	1052.0	931.8	824.1	771.5	771.5	761.4	756.5	756.5
72.5°	2910.6	1796.0	1097.1	879.2	794.1	703.8	661.3	643.8	623.7	621.2	608.7
73°	2432.2	1610.6	1047.0	846.6	761.4	686.3	638.7	611.2	598.6	588.6	586.2
75°	1480.3	1222.4	874.2	713.9	648.7	591.1	548.6	523.5	511.0	503.5	501.0
77.5°	974.4	911.7	678.9	546.1	495.9	460.9	443.4	418.3	410.8	400.7	400.7
80°	726.4	696.3	485.9	385.8	355.7	325.6	320.6	315.6	295.6	283.1	278.0
82.5°	468.4	495.9	330.7	258.0	225.5	200.4	202.9	210.4	190.4	172.8	167.9
85°	333.1	358.2	200.4	117.7	95.2	82.7	92.7	82.7	85.2	67.6	55.1
87.5°	55.1	95.2	35.1	15.1	7.5	5.0	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)