

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: P649727

Luminaire Tested: **GLAN-SA1A-835-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P649727
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA1A-835-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3626.1 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

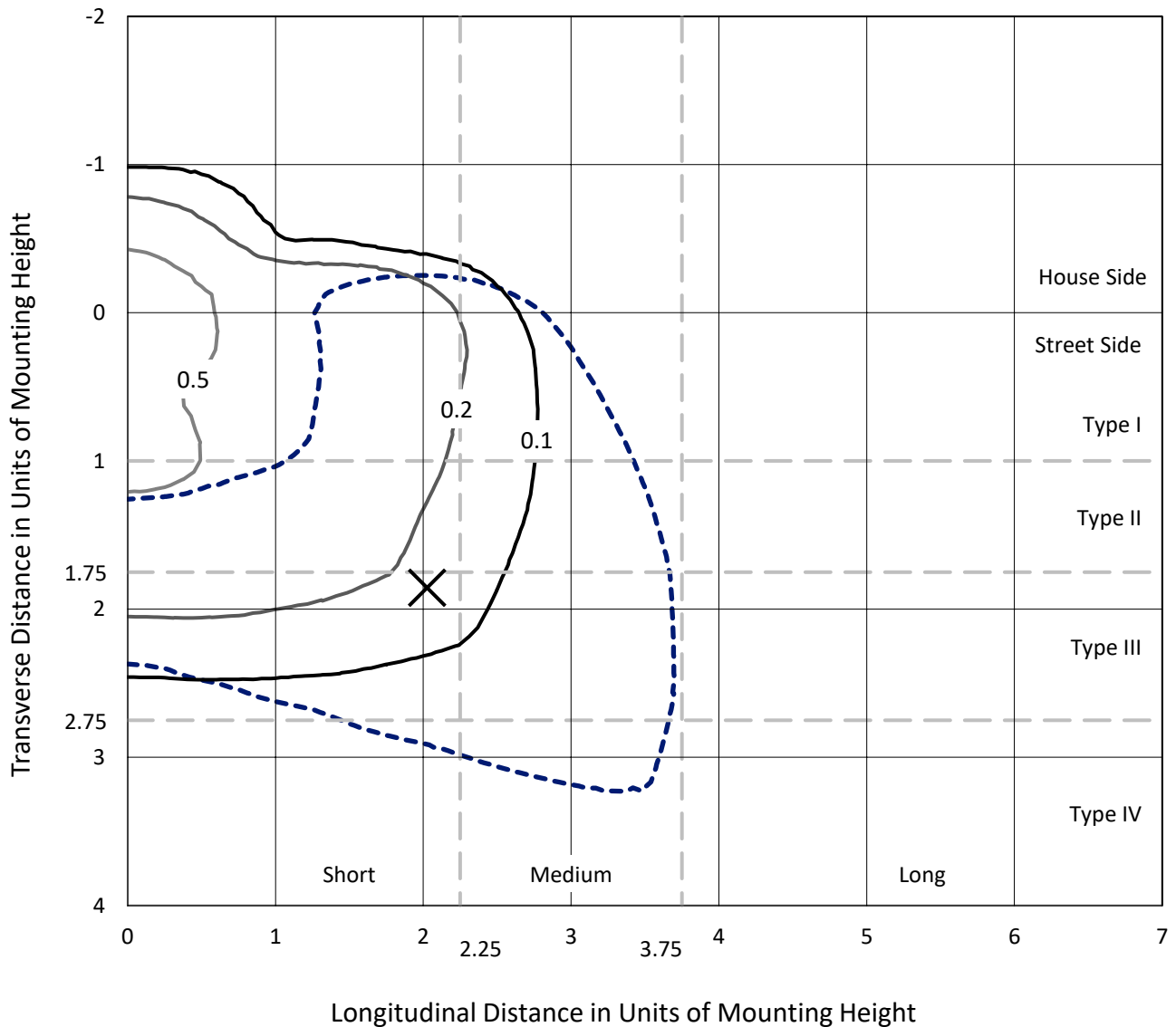
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

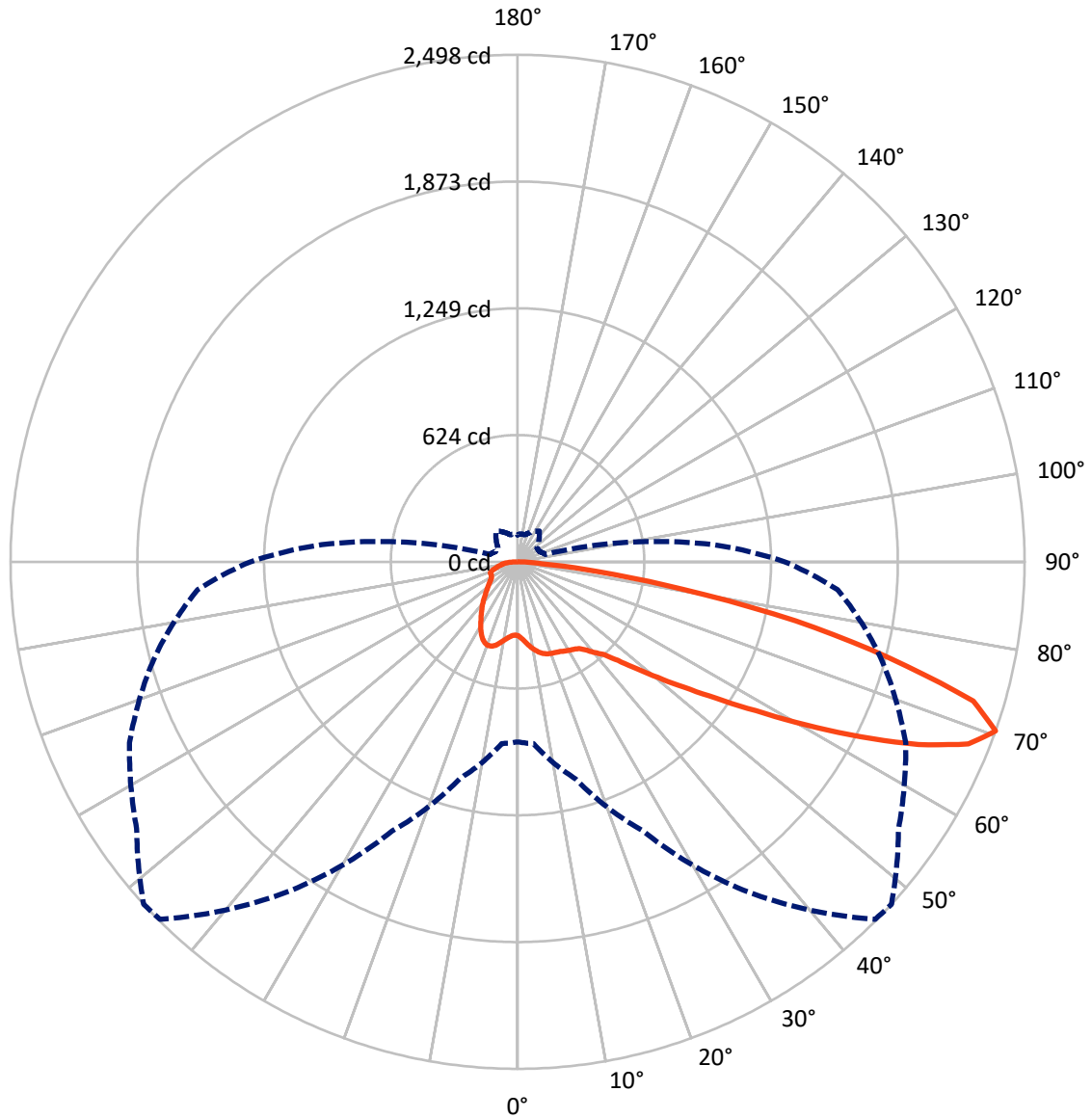
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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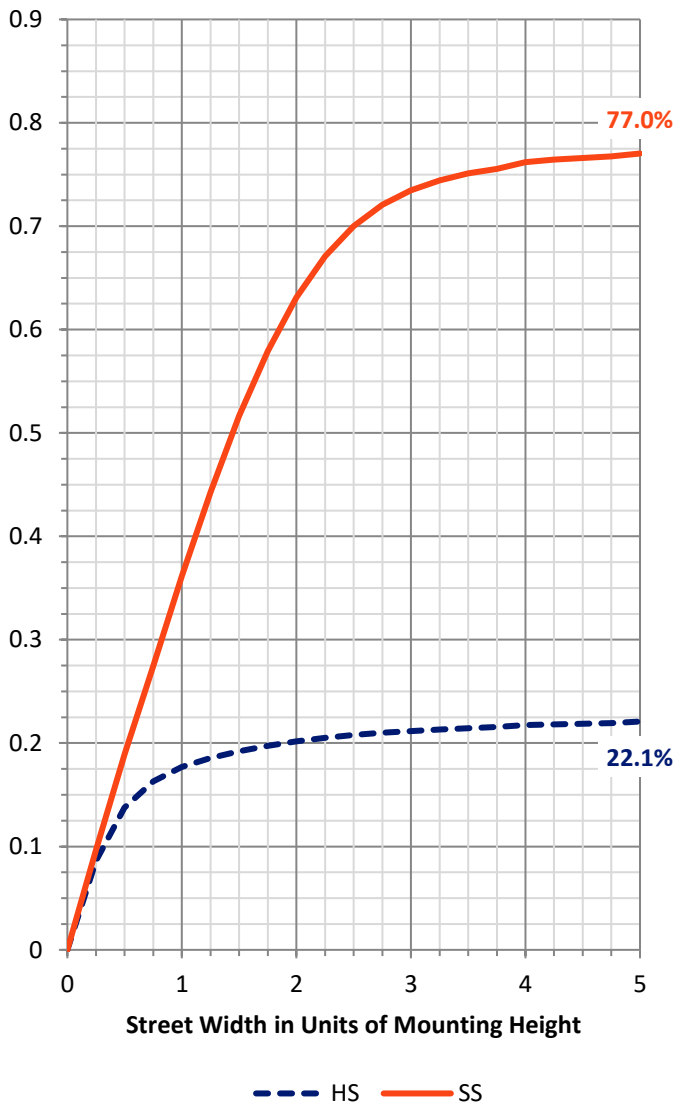
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	821.0	0.0	821.0
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	2805.1	0.0	2805.1
	% Fixture	77.4	0.0	77.4
Total	Lumens	3626.1	0.0	3626.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.5	1.0
10°-20°	125.4	3.5
20°-30°	208.6	5.8
30°-40°	295.7	8.2
40°-50°	436.5	12.0
50°-60°	756.0	20.8
60°-70°	1067.8	29.4
70°-80°	613.9	16.9
80°-90°	84.7	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°	3626.1	100.0
0°-180°	3626.1	100.0

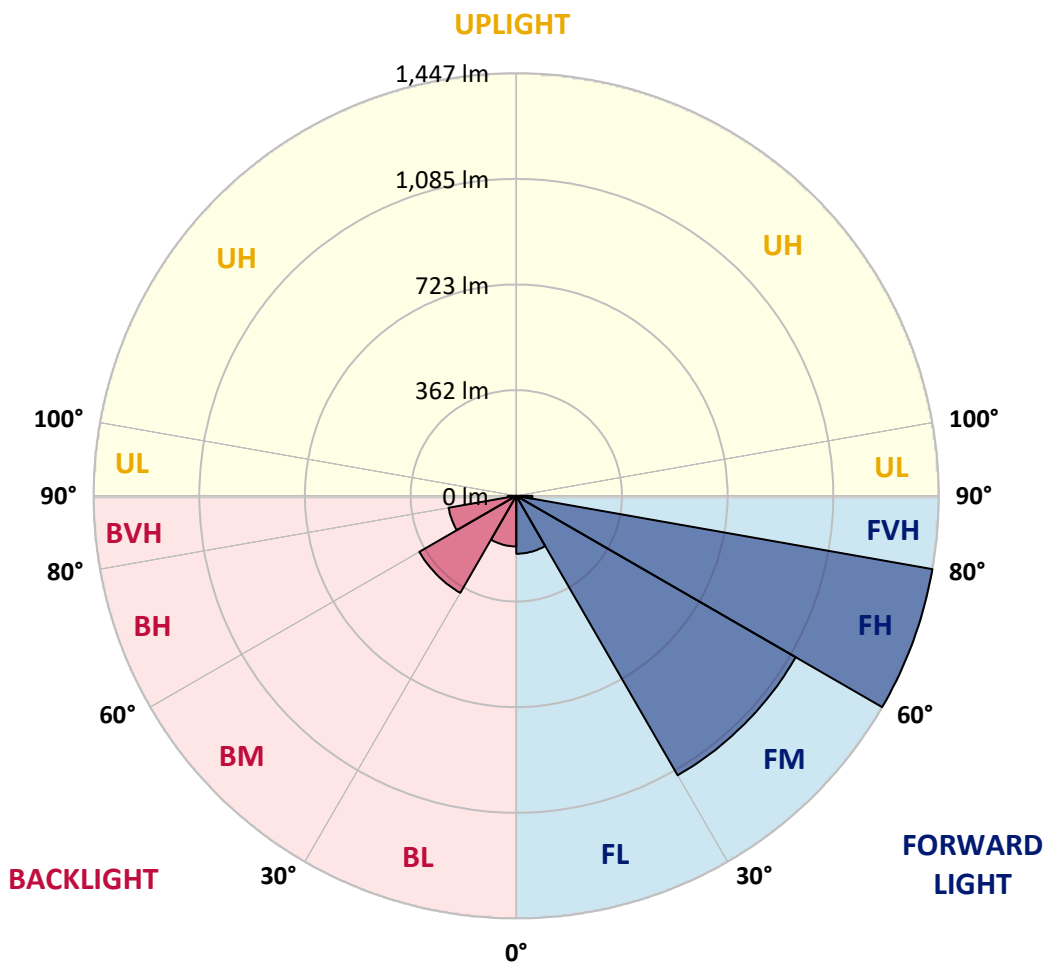


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	198.3	5.5			
FM (30°-60°)	1104.8	30.5			
FH (60°-80°)	1446.7	39.9			G1/1800
FVH (80°-90°)	55.3	1.5			G1/100
BL (0°-30°)	173.3	4.8	B1/500		
BM (30°-60°)	383.3	10.6	B1/1000		
BH (60°-80°)	235.0	6.5	B1/500		G1/500
BVH (80°-90°)	29.4	0.8			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0
2.5°	387.5	386.1	385.9	383.0	381.5	378.6	377.4	374.7	371.4	368.1	365.0
5°	418.0	418.0	416.6	412.5	406.1	399.5	396.6	391.3	382.0	374.5	368.1
7.5°	449.2	449.6	446.9	440.8	431.7	421.1	418.4	410.6	397.4	386.3	376.9
10°	476.1	476.1	472.5	464.3	452.9	441.2	438.6	429.8	415.1	401.3	388.8
12.5°	496.7	496.7	491.9	481.2	468.8	458.3	455.2	446.9	433.1	417.7	402.1
15°	510.1	509.2	503.7	491.7	479.7	470.5	468.4	461.4	448.8	433.3	415.6
17.5°	510.7	510.3	505.1	495.0	484.5	478.3	476.9	472.3	462.4	447.6	429.0
20°	499.5	500.3	496.7	489.5	484.5	481.8	481.2	479.7	472.7	458.9	440.3
22.5°	487.4	488.7	485.5	481.6	481.2	483.9	484.3	484.7	480.2	466.8	449.8
25°	484.5	485.5	482.2	478.7	480.8	488.0	489.5	491.1	487.7	476.4	461.0
27.5°	499.2	498.5	492.1	484.5	485.9	495.6	497.7	499.5	497.7	488.0	475.0
30°	541.0	538.5	525.6	503.5	496.6	503.3	505.5	510.3	510.3	503.2	490.2
32.5°	610.8	606.0	582.5	539.0	514.7	510.7	512.9	520.8	524.8	519.2	505.1
35°	695.6	690.6	657.0	598.6	548.2	525.5	524.8	533.8	544.7	532.0	513.6
37.5°	780.8	775.6	735.2	669.6	596.9	556.5	553.0	556.1	560.8	537.7	525.5
40°	866.0	859.8	824.5	749.0	656.5	597.7	588.5	574.6	572.6	556.1	548.3
42.5°	950.4	944.8	926.9	838.0	727.8	637.8	623.8	599.8	607.1	597.3	590.5
45°	1035.6	1036.0	1017.0	938.0	814.0	711.9	693.1	655.4	672.9	669.2	673.1
47.5°	1111.1	1110.1	1103.3	1035.0	920.9	807.4	783.2	739.5	769.4	782.9	812.6
50°	1184.2	1183.7	1184.1	1145.0	1045.1	920.9	894.1	848.3	915.6	962.8	1015.9
52.5°	1289.0	1292.3	1268.8	1258.5	1196.0	1055.0	1025.5	978.1	1088.5	1162.8	1266.7
55°	1394.1	1391.5	1373.0	1383.7	1354.0	1213.7	1182.9	1145.2	1281.1	1362.3	1518.3
57.5°	1456.1	1457.0	1475.9	1528.0	1549.0	1411.6	1383.7	1354.6	1497.4	1555.0	1742.3
60°	1511.7	1516.2	1570.3	1668.9	1725.7	1654.7	1629.9	1601.5	1695.9	1718.8	1936.7
62.5°	1529.2	1543.0	1637.5	1784.9	1898.1	1929.2	1898.3	1835.8	1884.9	1876.0	2068.5
65°	1442.1	1460.9	1630.3	1828.4	2051.9	2189.5	2169.9	2053.9	2045.9	1992.2	2090.0
67.5°	1212.7	1231.6	1449.1	1737.2	2115.6	2415.0	2395.4	2213.0	2143.7	2003.1	1927.0
70°	887.3	899.2	1107.2	1462.6	1987.7	2490.6	2497.5	2290.6	2108.8	1855.4	1582.2
72.5°	511.3	537.5	683.2	1029.0	1623.9	2299.4	2346.5	2129.1	1888.0	1547.8	1106.2
75°	219.9	220.4	315.9	567.6	1099.8	1848.2	1893.8	1765.0	1482.6	1070.3	590.6
77.5°	104.6	106.5	138.9	253.4	605.4	1277.0	1400.0	1246.8	948.3	514.2	223.2
80°	67.9	69.3	85.0	125.7	296.9	740.5	826.2	719.3	418.4	183.8	96.2
82.5°	41.1	41.5	56.8	76.8	163.4	335.3	395.3	312.2	178.5	110.0	56.7
85°	25.1	25.2	34.5	47.5	99.1	115.8	118.9	118.0	104.8	72.0	30.3
87.5°	12.1	12.4	17.9	22.5	39.0	35.9	34.0	39.4	49.5	38.8	13.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0
2.5°	363.6	363.1	361.7	361.1	360.7	360.9	360.7	360.7	360.9	360.9	360.9
5°	365.3	364.4	362.3	362.3	363.5	366.1	368.6	370.6	372.7	372.6	372.6
7.5°	372.9	371.2	368.6	369.4	372.4	376.6	381.1	385.4	389.6	390.0	389.9
10°	384.0	382.3	379.5	380.5	385.2	391.6	397.2	403.4	408.1	409.4	409.0
12.5°	396.6	393.1	390.8	393.5	400.9	409.4	414.8	419.5	422.8	424.8	424.0
15°	409.4	406.1	403.4	409.0	418.0	425.9	428.6	429.4	430.0	431.9	431.5
17.5°	421.8	417.3	416.4	423.8	432.3	435.8	434.3	431.0	428.5	430.0	429.8
20°	432.9	429.4	429.0	436.4	439.7	436.4	429.8	424.0	419.5	419.9	419.7
22.5°	443.4	440.7	441.1	444.1	438.9	427.7	416.8	408.8	403.9	405.0	405.5
25°	455.0	452.3	453.3	448.2	431.0	411.4	395.6	388.8	386.9	388.8	390.2
27.5°	470.2	468.4	467.8	448.4	416.8	387.3	369.4	366.9	368.6	372.9	375.1
30°	486.5	486.5	483.3	445.1	397.4	358.4	342.9	343.3	349.3	355.2	357.4
32.5°	502.1	505.5	495.8	436.2	372.4	330.3	318.4	318.8	324.0	331.4	333.3
35°	515.1	524.7	506.4	419.9	342.9	306.5	297.6	292.5	292.6	298.2	299.8
37.5°	533.0	550.7	512.6	395.6	311.4	286.4	276.3	267.2	261.2	258.9	258.9
40°	564.1	590.1	514.2	359.7	281.7	267.2	252.8	241.9	230.4	219.9	217.9
42.5°	616.6	649.4	511.1	318.4	254.9	246.0	232.1	218.7	202.6	187.8	186.7
45°	709.8	726.7	502.8	275.5	231.1	225.7	212.1	197.6	180.5	167.2	166.3
47.5°	859.0	835.1	491.7	237.5	209.4	207.8	197.3	180.5	163.4	154.3	153.3
50°	1076.9	1005.9	490.2	209.9	191.9	192.7	184.2	168.6	153.7	146.1	144.9
52.5°	1339.2	1212.2	500.4	190.6	176.6	179.5	175.2	160.8	147.7	141.3	140.1
55°	1593.8	1397.7	506.6	175.4	162.2	167.6	168.3	156.2	144.2	137.7	137.0
57.5°	1800.5	1537.3	479.0	161.6	149.8	158.2	162.4	153.5	142.4	137.6	136.8
60°	1944.3	1603.3	400.7	149.4	140.7	150.6	160.3	153.7	146.7	147.3	147.7
62.5°	1990.1	1574.1	300.6	140.3	134.4	148.1	163.8	161.6	154.5	158.9	159.7
65°	1914.2	1452.9	217.9	133.1	129.0	149.8	174.2	167.5	151.7	155.0	155.0
67.5°	1660.2	1251.7	169.6	126.5	122.9	153.1	184.7	166.9	145.3	149.2	145.7
70°	1316.9	968.3	141.3	119.2	116.2	148.2	185.7	160.8	137.7	138.5	131.9
72.5°	873.9	636.7	121.4	112.1	106.2	133.3	177.7	153.1	130.4	125.9	119.3
75°	428.2	317.4	105.9	103.4	92.9	116.0	166.9	145.7	122.5	115.4	111.7
77.5°	165.9	135.1	90.4	92.4	80.9	102.3	152.5	135.2	112.0	102.4	99.5
80°	80.5	76.7	74.2	77.0	66.6	87.1	139.3	126.1	102.3	91.8	87.5
82.5°	50.0	47.4	56.8	60.0	51.2	79.6	132.2	118.4	90.0	76.0	72.6
85°	25.4	27.2	38.1	41.0	36.6	63.3	108.8	88.9	65.0	53.9	54.3
87.5°	9.7	13.0	20.0	21.5	19.6	33.4	60.0	51.8	41.7	28.3	26.2
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)