

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: P318105

Luminaire Tested: **GAN-SA1A-750-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318105
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1A-750-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4787 lumens
Efficiency: N/A
Efficacy: 140.8 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

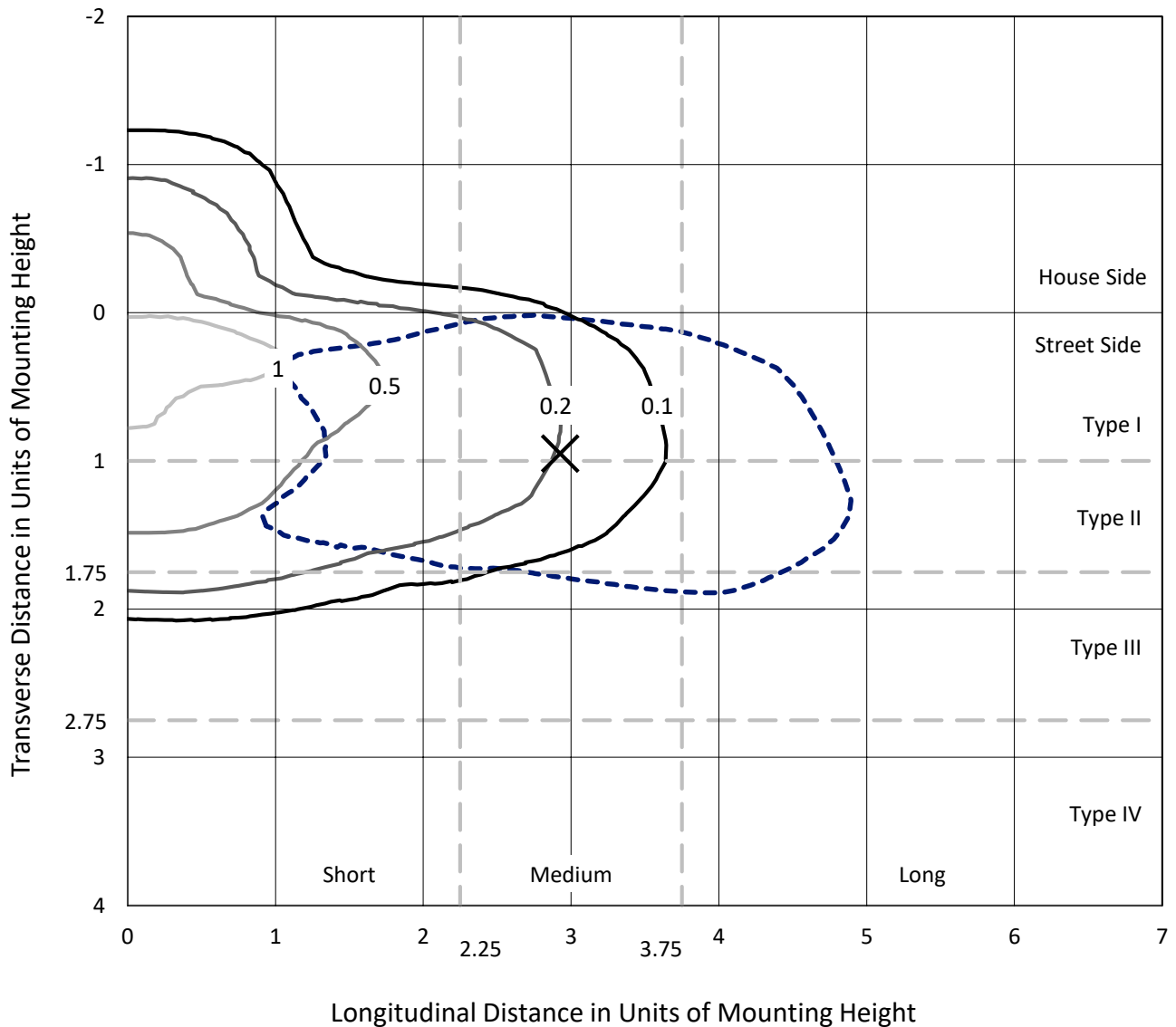
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

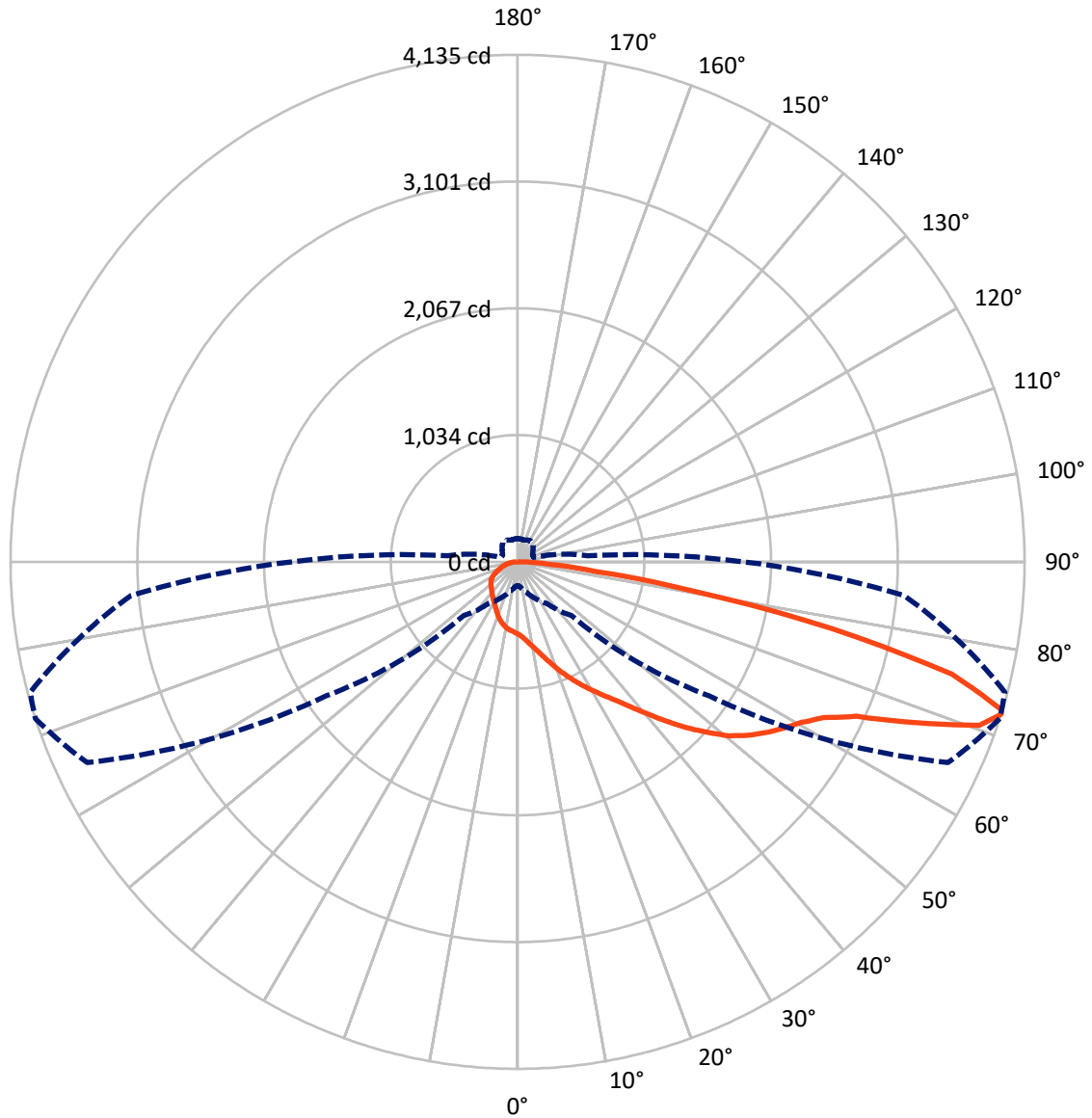
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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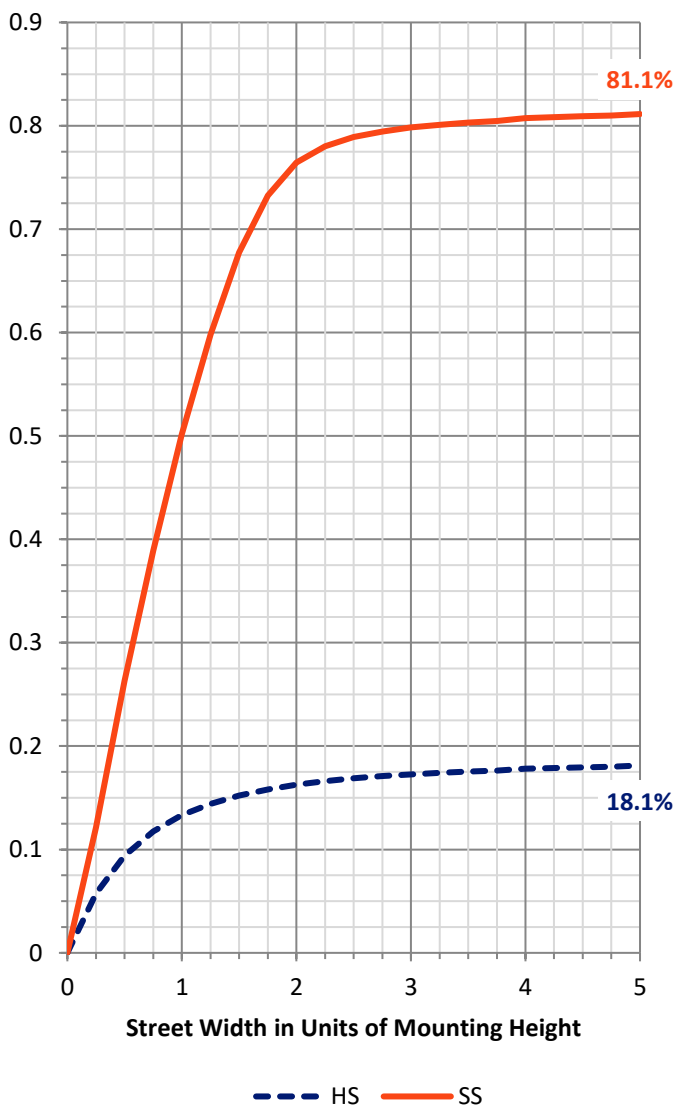
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	888.0	0.0	888.0
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	3899.0	0.0	3899.0
	% Fixture	81.4	0.0	81.4
Total	Lumens	4787.0	0.0	4787.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.0	1.2
10°-20°	190.7	4.0
20°-30°	334.2	7.0
30°-40°	495.5	10.4
40°-50°	724.6	15.1
50°-60°	997.1	20.8
60°-70°	1110.1	23.2
70°-80°	752.2	15.7
80°-90°	123.6	2.6
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°	4787.0	100.0
0°-180°	4787.0	100.0

Coefficient of Utilization



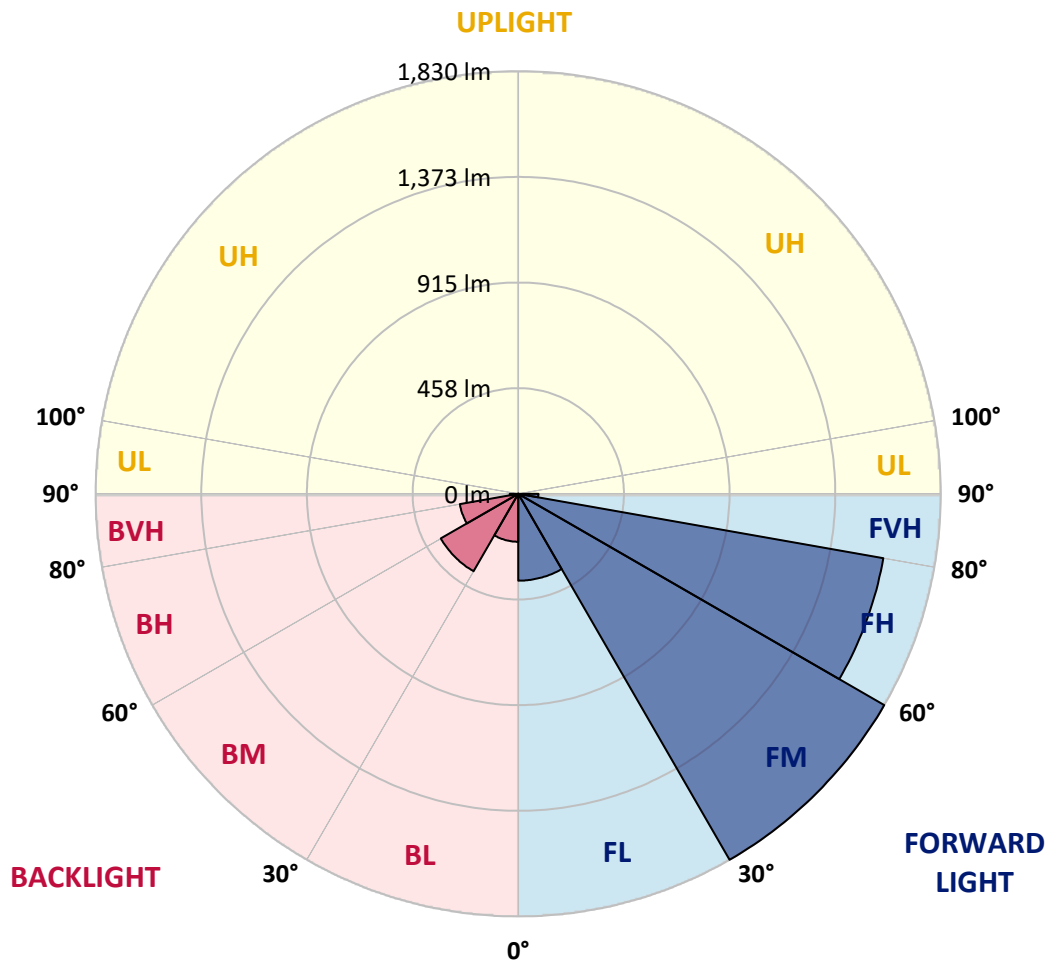
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	376.3	7.9			
FM (30°-60°)	1830.1	38.2			
FH (60°-80°)	1605.4	33.5			G1/1800
FVH (80°-90°)	87.2	1.8			G1/100
BL (0°-30°)	207.6	4.3	B1/500		
BM (30°-60°)	387.1	8.1	B1/1000		
BH (60°-80°)	256.9	5.4	B1/500		G1/500
BVH (80°-90°)	36.4	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	588.9	588.9	588.9	588.9	588.9	588.9	588.9	588.9	588.9	588.9	588.9
2.5°	650.6	649.6	646.1	646.1	639.5	633.9	623.4	616.3	607.9	604.9	595.0
5°	713.5	713.9	709.6	706.6	696.9	685.0	667.1	650.7	634.4	627.8	607.6
7.5°	766.4	765.8	764.6	762.2	753.1	740.9	716.7	692.4	668.4	658.5	623.5
10°	800.4	801.9	802.9	804.0	800.2	791.5	768.6	739.1	707.6	694.1	642.7
12.5°	817.5	820.2	824.8	832.7	839.0	838.0	821.3	790.0	752.6	735.6	666.6
15°	827.6	831.1	838.3	852.5	870.1	880.2	875.7	847.4	805.7	784.7	695.7
17.5°	833.9	836.7	847.9	866.8	893.0	919.7	931.4	907.7	865.7	841.8	729.2
20°	838.1	840.3	854.3	876.5	910.5	953.0	985.7	979.7	931.8	900.8	764.1
22.5°	847.7	849.5	862.9	885.3	922.9	977.8	1037.9	1046.8	1001.5	966.4	801.6
25°	874.4	874.4	885.6	901.3	936.5	999.2	1082.1	1121.5	1072.7	1031.8	836.2
27.5°	925.3	924.8	929.0	934.4	961.1	1020.9	1121.5	1187.4	1146.5	1101.9	869.8
30°	985.7	989.0	989.5	986.8	999.3	1048.1	1157.9	1257.0	1220.9	1172.7	904.2
32.5°	1063.3	1065.4	1063.0	1054.2	1052.4	1086.7	1193.7	1329.8	1301.3	1246.7	935.7
35°	1161.9	1157.7	1150.0	1132.2	1115.2	1138.3	1234.6	1402.7	1391.6	1336.3	979.1
37.5°	1267.5	1267.7	1258.1	1217.7	1194.3	1204.2	1290.9	1485.3	1500.9	1442.7	1034.6
40°	1352.2	1356.7	1362.6	1309.5	1279.2	1292.9	1362.6	1581.0	1630.1	1569.0	1107.0
42.5°	1411.4	1416.5	1433.3	1400.0	1368.6	1393.9	1447.0	1683.2	1775.2	1714.7	1191.7
45°	1474.0	1476.8	1488.7	1474.4	1454.3	1511.5	1542.1	1789.0	1928.6	1870.0	1286.5
47.5°	1540.0	1542.9	1555.1	1545.6	1535.0	1621.2	1641.3	1888.7	2075.7	2040.6	1387.7
50°	1621.4	1623.4	1634.9	1617.6	1620.9	1704.0	1730.0	1980.2	2229.8	2193.8	1489.2
52.5°	1732.5	1733.0	1749.0	1733.3	1717.8	1764.6	1806.3	2066.4	2350.6	2333.6	1590.7
55°	1819.5	1824.8	1877.2	1873.9	1865.0	1819.7	1870.1	2148.5	2458.4	2466.5	1698.5
57.5°	1764.0	1784.6	1890.7	1965.6	2038.4	1956.7	1956.3	2241.0	2558.6	2596.8	1817.0
60°	1544.9	1572.9	1729.4	1895.3	2123.3	2195.0	2135.3	2353.9	2659.8	2726.1	1965.6
62.5°	1103.4	1149.5	1361.5	1626.5	2006.9	2352.9	2499.6	2533.1	2797.4	2875.7	2158.6
65°	557.8	592.7	770.4	1089.7	1603.4	2249.7	2895.5	2925.3	3036.6	3106.2	2455.8
67.5°	338.9	352.1	438.8	606.1	983.0	1752.4	3024.7	3579.2	3499.4	3536.4	2879.5
70°	249.7	259.4	313.5	402.5	565.4	1028.4	2628.2	4045.8	3993.4	3989.3	3192.7
72°	194.5	201.6	249.4	325.2	413.4	616.9	1904.9	3873.6	4134.8	4114.1	3164.0
72.5°	184.4	190.7	234.2	306.1	390.6	559.3	1712.7	3757.4	4124.6	4115.2	3126.9
75°	145.2	149.7	173.4	236.7	305.8	317.3	938.5	2911.8	3659.0	3811.1	2812.4
77.5°	120.2	120.8	133.3	172.2	238.3	224.3	461.0	2020.3	2620.1	2787.4	1992.3
80°	97.9	98.7	104.7	120.8	180.3	166.0	218.9	1161.7	1467.0	1468.8	947.4
82.5°	78.0	78.1	84.7	88.3	129.6	118.7	125.4	545.4	641.0	616.6	340.5
85°	54.9	53.7	82.7	72.5	84.7	76.1	69.2	215.9	265.0	253.5	106.6
87.5°	18.3	19.0	36.8	47.0	49.4	43.2	30.8	82.7	100.0	99.2	33.8
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°	588.9	588.9	588.9	588.9	588.9	588.9	588.9	588.9	588.9	588.9	588.9
2.5°	591.9	586.6	578.9	570.3	563.5	556.6	551.5	548.9	545.9	543.4	546.4
5°	598.2	588.3	571.8	555.6	543.8	533.2	525.6	521.7	518.1	515.6	515.9
7.5°	608.4	592.4	564.7	541.1	524.6	513.3	505.5	502.9	500.6	499.9	500.7
10°	619.3	595.7	555.3	524.0	505.2	495.8	492.3	494.2	495.8	497.3	498.9
12.5°	631.6	598.7	541.6	503.9	487.9	484.3	487.7	495.6	501.4	504.9	507.0
15°	647.8	601.3	525.8	483.8	473.1	477.2	488.9	502.6	512.6	519.0	520.0
17.5°	662.6	601.1	505.5	463.5	461.0	473.1	490.7	510.0	523.5	532.6	534.4
20°	677.9	596.7	482.0	443.7	448.8	468.6	491.5	514.8	531.1	541.6	544.1
22.5°	692.3	588.9	456.1	425.7	438.6	462.7	488.4	512.0	528.3	536.8	539.5
25°	702.0	575.4	429.9	410.6	429.5	455.4	478.2	497.1	509.3	513.6	514.3
27.5°	706.9	557.8	405.1	397.4	420.1	443.5	459.2	468.6	472.1	471.7	471.1
30°	707.6	534.5	383.9	386.7	409.3	426.1	433.5	431.7	427.2	419.6	420.3
32.5°	705.5	508.3	366.1	376.5	395.4	404.8	405.1	396.4	384.5	372.5	369.2
35°	706.1	482.6	350.4	364.9	378.6	382.7	378.9	366.1	349.9	334.4	331.1
37.5°	713.4	460.2	336.9	351.6	360.0	361.0	355.5	342.0	330.1	315.0	313.7
40°	730.7	444.2	324.0	336.6	341.4	341.9	334.1	324.5	325.5	317.5	317.3
42.5°	761.8	437.3	312.7	320.9	323.9	324.9	318.9	312.8	321.4	316.1	314.3
45°	802.0	438.9	303.1	305.6	311.0	315.6	312.0	304.6	307.9	285.0	277.4
47.5°	848.5	449.5	295.5	292.4	301.8	310.5	304.9	293.7	282.0	259.3	255.0
50°	902.9	465.8	288.6	279.4	291.7	303.6	298.0	282.0	264.4	253.3	251.9
52.5°	959.6	485.7	281.7	265.0	279.1	298.3	295.5	279.4	257.6	246.7	244.8
55°	1023.9	505.9	273.0	248.4	265.4	295.9	294.4	269.8	252.5	246.4	244.9
57.5°	1103.8	528.8	261.4	231.1	252.5	287.0	282.3	264.1	247.2	242.6	242.1
60°	1208.0	562.6	244.8	212.6	236.9	273.3	272.3	255.6	238.8	235.5	234.9
62.5°	1364.3	618.4	221.9	194.2	219.4	250.0	259.1	244.3	229.9	229.8	230.1
65°	1606.6	702.5	197.0	178.0	201.7	230.4	243.8	232.6	220.9	224.2	224.7
67.5°	1887.4	772.2	172.6	162.2	183.8	211.8	229.9	220.9	208.8	217.4	217.6
70°	1980.9	709.9	151.1	146.5	165.2	193.8	214.9	208.0	195.8	204.4	203.6
72°	1843.4	573.1	137.3	134.7	151.1	179.0	201.6	196.0	183.9	189.7	187.6
72.5°	1800.1	546.4	133.8	131.7	147.4	175.2	198.1	193.0	181.0	185.9	183.9
75°	1605.7	474.5	115.0	115.5	128.6	156.8	178.7	177.0	164.7	165.2	164.5
77.5°	1164.7	347.9	96.9	100.2	109.4	137.8	159.1	158.1	144.6	142.1	141.6
80°	540.5	177.5	79.0	80.4	90.0	115.2	135.7	134.3	123.5	120.3	118.5
82.5°	185.1	84.4	59.3	60.3	69.7	92.8	117.7	116.9	107.8	101.7	97.9
85°	66.1	42.0	41.5	40.5	49.8	73.0	102.5	98.1	84.7	72.2	71.9
87.5°	21.4	18.0	21.4	21.3	29.0	49.4	74.5	63.5	61.5	51.1	50.1
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)