

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: P318845

Luminaire Tested: **GAN-SA1C-827-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318845
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1C-827-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5477 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

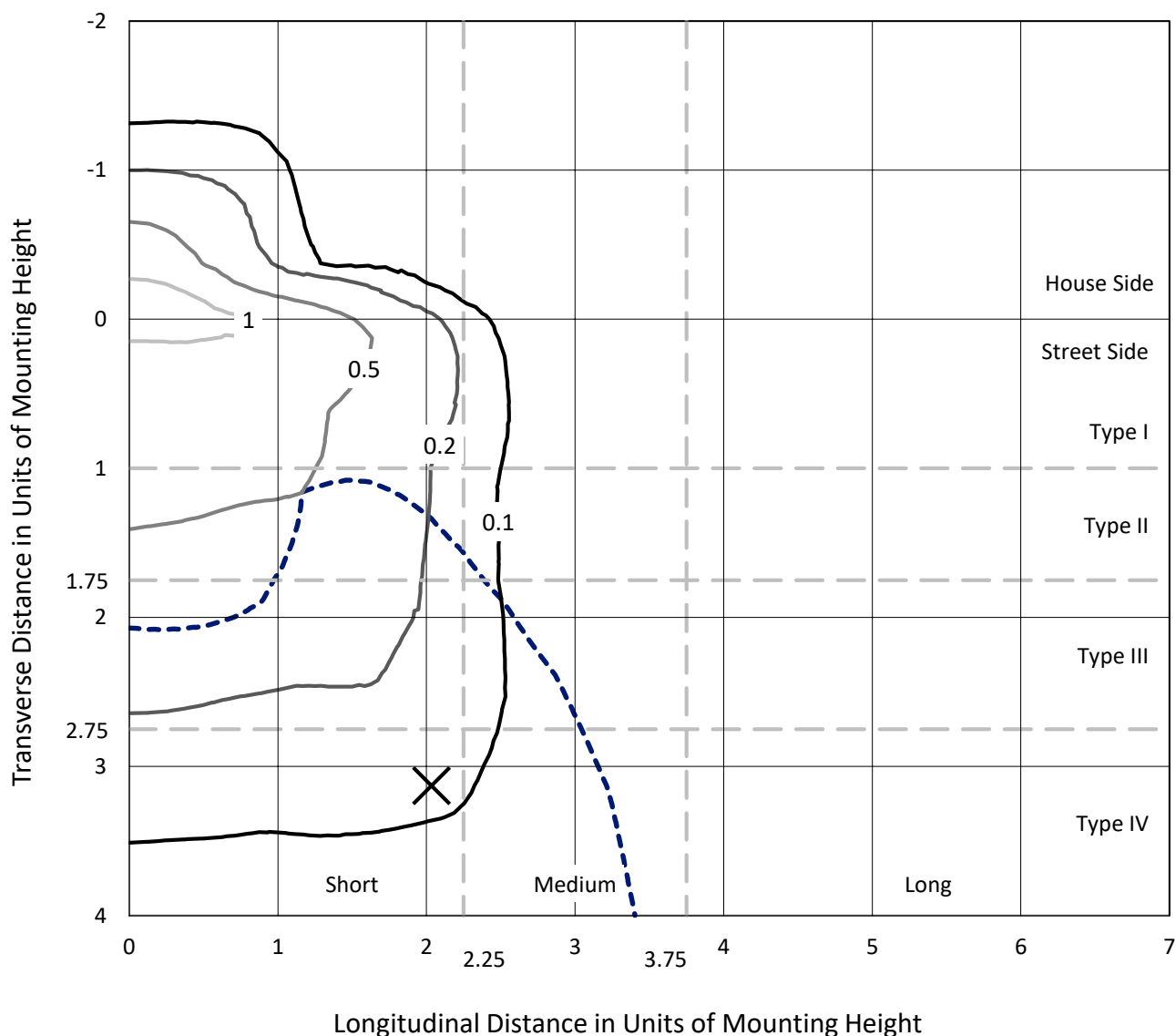
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

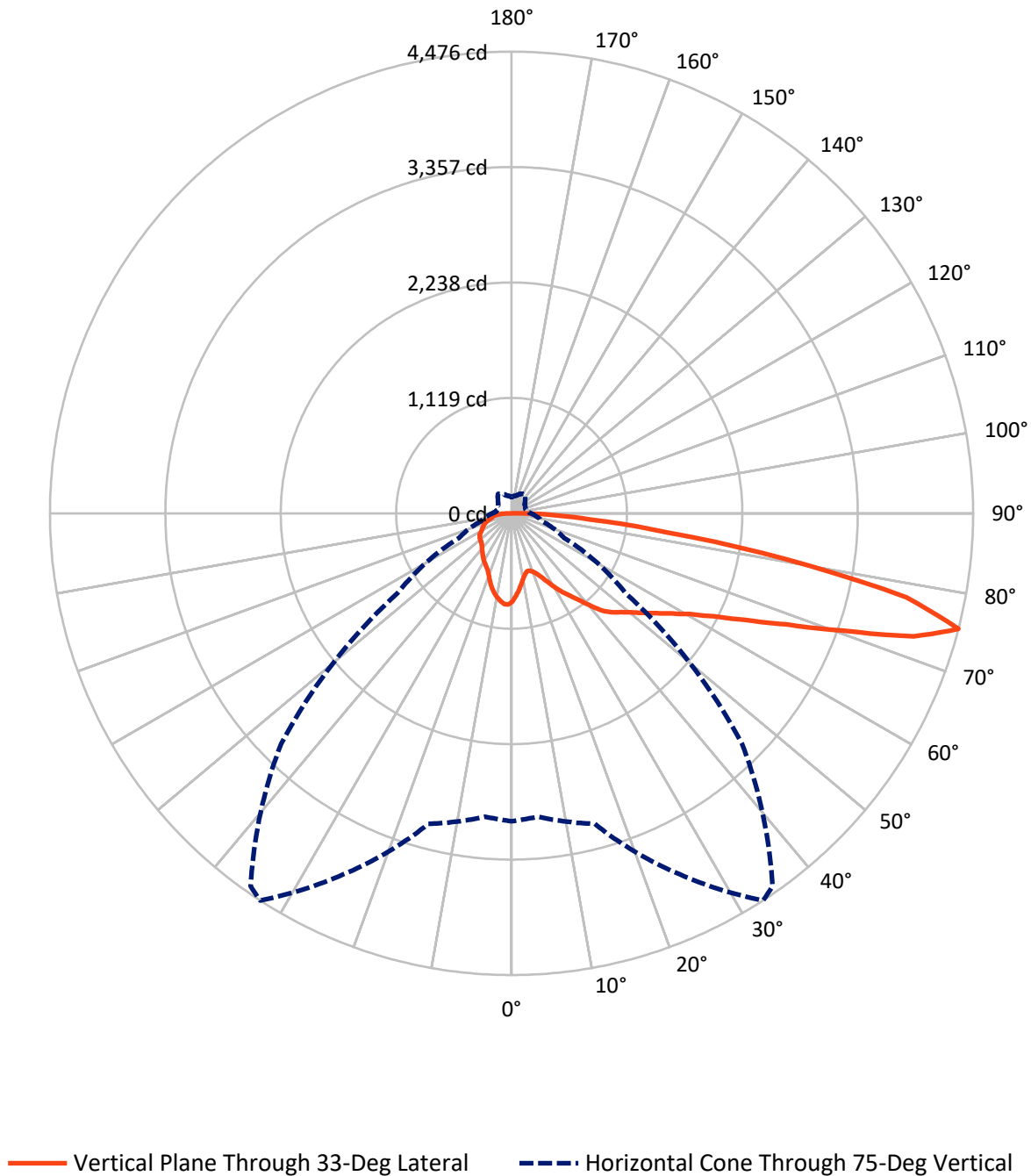
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1176.1	0.0	1176.1
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	4300.9	0.0	4300.9
	% Fixture	78.5	0.0	78.5
Total	Lumens	5477.0	0.0	5477.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.4	1.4
10°-20°	209.7	3.8
20°-30°	342.5	6.3
30°-40°	510.0	9.3
40°-50°	731.5	13.4
50°-60°	1004.2	18.3
60°-70°	1257.2	23.0
70°-80°	1137.3	20.8
80°-90°	207.2	3.8
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°	5477.0	100.0
0°-180°	5477.0	100.0

Coefficient of Utilization



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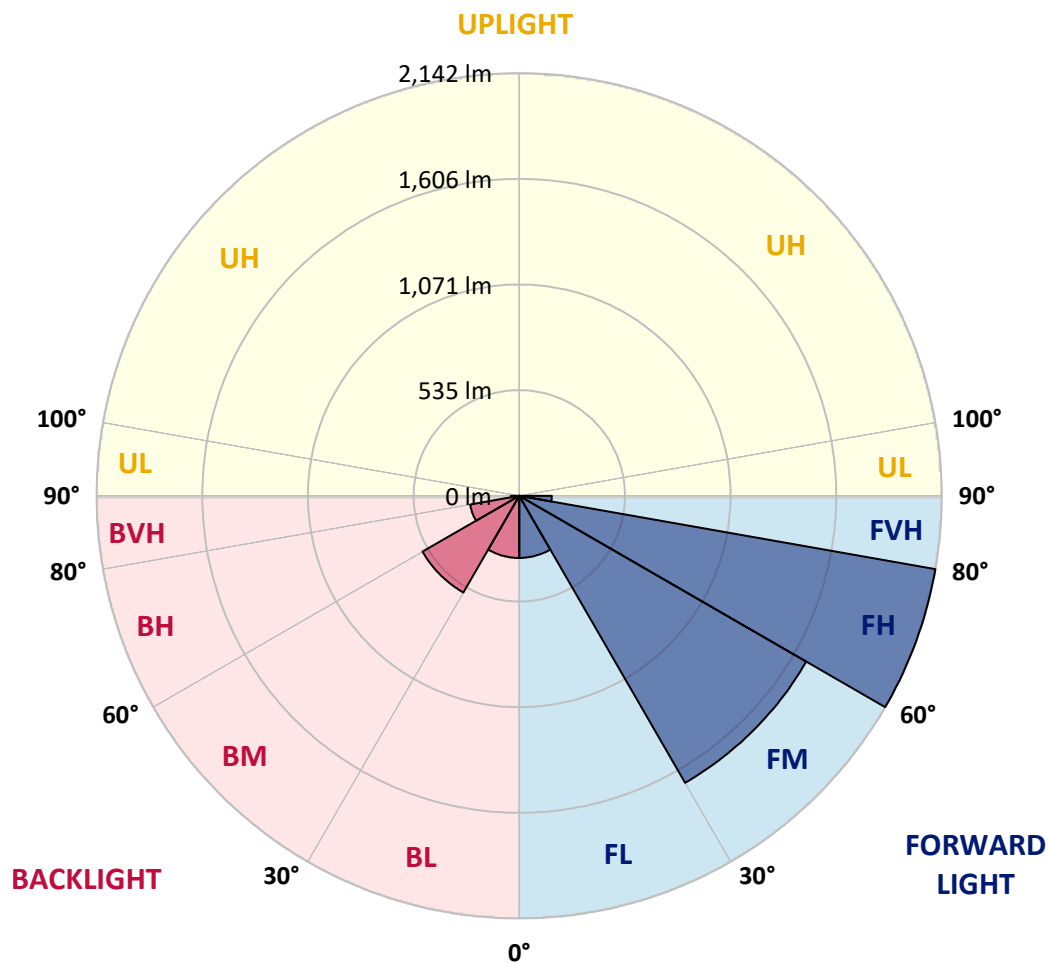
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	314.6	5.7			
FM	(30°-60°)	1679.7	30.7			
FH	(60°-80°)	2141.7	39.1			G2/5000
FVH	(80°-90°)	165.0	3.0			G2/225
BL	(0°-30°)	315.0	5.8	B1/500		
BM	(30°-60°)	566.0	10.3	B1/1000		
BH	(60°-80°)	252.9	4.6	B1/500		G1/500
BVH	(80°-90°)	42.2	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	856.1	856.1	856.1	856.1	856.1	856.1	856.1	856.1	856.1	856.1	856.1
2.5°	795.0	792.0	797.6	798.4	803.3	805.2	812.0	822.6	831.3	841.3	850.4
5°	722.9	720.8	728.8	734.4	745.2	749.8	765.8	788.4	808.4	831.1	851.7
7.5°	654.4	653.3	662.2	675.0	687.5	693.8	721.6	754.3	787.8	824.5	856.1
10°	596.7	596.3	604.8	617.5	635.9	642.9	678.8	721.9	768.9	819.4	863.5
12.5°	564.4	565.7	569.7	580.2	597.3	604.3	644.2	694.9	753.0	817.7	874.2
15°	572.3	574.4	567.6	567.2	579.3	584.8	622.2	675.6	741.6	820.5	890.0
17.5°	606.2	606.5	588.6	577.2	584.6	587.4	615.4	664.6	735.0	827.0	909.6
20°	653.8	652.9	621.1	602.2	606.2	606.9	625.1	664.8	734.4	838.1	935.2
22.5°	717.0	710.0	667.3	641.5	640.6	639.5	649.9	678.8	742.8	856.3	965.6
25°	799.5	792.9	734.1	698.9	691.3	688.5	690.0	708.7	759.2	875.8	999.7
27.5°	891.3	879.7	823.0	773.2	757.5	753.5	744.5	750.9	777.2	894.5	1040.2
30°	968.1	961.8	912.3	853.2	834.7	829.0	805.2	798.2	803.1	920.0	1091.2
32.5°	1011.0	1006.9	976.8	929.1	911.9	904.0	870.3	856.3	844.7	960.3	1160.5
35°	1063.1	1060.4	1042.2	1007.6	982.1	973.8	947.7	933.1	903.4	1015.8	1250.0
37.5°	1129.3	1126.4	1126.8	1098.8	1068.4	1060.6	1043.4	1028.1	979.4	1088.6	1347.2
40°	1204.2	1198.7	1196.6	1195.3	1176.0	1171.7	1162.6	1141.8	1074.8	1175.6	1443.1
42.5°	1317.0	1297.5	1255.8	1271.5	1290.7	1288.4	1295.8	1265.9	1180.7	1278.5	1536.8
45°	1425.7	1393.8	1321.9	1325.3	1367.1	1379.8	1435.0	1413.8	1295.6	1391.3	1633.7
47.5°	1475.3	1451.1	1390.0	1390.2	1431.6	1457.9	1579.0	1563.8	1416.3	1519.4	1751.9
50°	1530.7	1506.5	1451.7	1472.3	1508.4	1536.4	1718.0	1710.3	1531.1	1659.6	1893.6
52.5°	1591.3	1550.2	1515.4	1552.3	1603.0	1635.5	1857.3	1836.1	1636.5	1800.7	2056.5
55°	1592.0	1580.9	1607.4	1634.4	1710.3	1750.2	2003.1	1947.1	1722.4	1939.4	2189.1
57.5°	1682.7	1664.5	1720.7	1733.2	1832.3	1877.3	2148.3	2043.8	1809.8	2045.7	2260.6
60°	1802.6	1787.1	1833.1	1866.0	1983.3	2043.4	2303.2	2143.1	1878.5	2125.9	2257.2
62.5°	2009.8	1992.2	1991.6	2037.8	2195.7	2265.7	2477.1	2240.6	1905.7	2141.8	2160.9
65°	2313.0	2285.0	2232.3	2254.2	2489.2	2559.0	2671.4	2311.1	1869.8	2056.7	1912.9
67.5°	2608.2	2607.2	2542.3	2587.4	2876.6	2932.6	2892.7	2318.1	1757.6	1760.2	1472.8
70°	2902.4	2906.2	2895.2	3051.8	3400.1	3458.4	3128.4	2224.1	1505.4	1271.2	882.4
72.5°	3135.4	3134.5	3189.7	3593.7	4079.5	4066.5	3327.1	1939.2	1080.8	686.2	421.7
75°	2984.5	2951.6	3116.2	3861.9	4475.5	4411.7	3158.2	1352.7	560.9	312.4	227.0
77.5°	1946.6	1977.8	2219.4	3190.3	3914.7	3837.2	2317.0	631.1	264.3	204.9	164.6
80°	704.9	737.8	1039.2	1807.1	2697.1	2684.4	1141.0	259.4	178.8	154.8	119.9
82.5°	242.5	254.7	410.0	802.5	1522.8	1579.5	429.3	147.4	130.0	109.7	82.1
85°	95.2	109.0	187.5	386.1	768.1	773.8	173.9	88.2	90.4	71.9	45.0
87.5°	36.1	43.9	89.7	179.4	350.8	322.2	62.2	42.0	51.5	42.8	21.4
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°	856.1	856.1	856.1	856.1	856.1	856.1	856.1	856.1	856.1	856.1	856.1
2.5°	857.4	861.4	869.7	875.4	881.4	883.1	883.9	885.4	886.9	886.4	886.5
5°	862.7	870.5	883.9	889.6	892.2	889.2	883.3	878.6	875.2	873.3	872.7
7.5°	871.4	882.4	896.8	895.8	889.8	876.3	861.2	849.8	840.4	837.0	835.1
10°	883.0	895.8	905.8	895.1	877.5	854.2	831.5	813.9	799.7	794.2	793.3
12.5°	897.7	910.8	912.7	889.8	860.6	828.8	798.0	774.7	753.5	746.7	745.2
15°	916.8	929.1	917.4	880.5	839.8	797.1	757.1	725.5	703.2	694.9	691.9
17.5°	936.9	948.6	918.3	865.2	812.6	759.4	709.3	676.9	651.4	641.7	640.6
20°	960.9	966.2	914.4	843.2	775.1	710.6	657.8	627.4	613.7	606.9	606.2
22.5°	990.6	984.9	905.3	813.5	727.6	654.2	611.3	597.1	593.7	592.2	592.7
25°	1022.0	1004.6	891.8	774.7	667.7	597.8	577.2	581.2	585.7	585.2	585.2
27.5°	1056.6	1024.7	871.2	723.3	601.2	551.7	554.1	568.7	575.5	575.3	575.1
30°	1101.1	1047.4	844.9	661.4	539.2	519.1	534.1	551.9	561.1	560.8	560.9
32.5°	1155.8	1072.3	809.2	592.4	494.4	495.1	512.3	529.9	540.7	539.8	539.9
35°	1219.7	1100.3	760.7	524.2	464.7	476.0	489.6	501.9	512.1	510.8	509.5
37.5°	1289.3	1127.8	696.4	463.3	440.4	458.2	469.6	471.7	476.4	473.0	470.5
40°	1355.5	1148.8	613.5	413.4	416.0	443.1	450.5	442.1	433.6	432.5	429.1
42.5°	1413.3	1155.8	529.7	373.5	390.3	427.2	431.7	414.3	399.0	391.8	388.8
45°	1474.2	1158.2	451.6	340.0	365.5	413.0	417.9	394.7	373.1	357.6	352.5
47.5°	1553.8	1176.0	390.9	315.2	346.6	403.5	410.5	378.9	350.9	328.8	324.1
50°	1658.1	1211.2	341.5	296.3	334.3	397.3	405.2	363.6	332.8	306.1	301.4
52.5°	1773.8	1243.5	301.6	280.9	322.4	386.3	398.4	352.7	315.8	285.1	280.0
55°	1854.8	1218.8	269.4	265.1	306.9	370.6	389.0	343.4	291.4	264.7	260.1
57.5°	1870.3	1134.0	245.0	248.6	288.1	350.9	374.4	322.8	278.1	255.8	251.1
60°	1828.0	1016.0	226.8	233.5	268.1	326.2	347.2	308.2	265.4	246.3	242.4
62.5°	1721.4	895.1	213.4	219.8	249.4	301.0	330.1	292.9	252.6	235.5	231.6
65°	1506.3	751.5	200.5	207.7	231.9	279.2	314.8	278.7	239.9	226.8	223.1
67.5°	1137.0	562.8	188.4	194.9	216.4	260.3	298.2	264.7	227.6	219.3	214.7
70°	669.5	352.5	174.6	181.4	200.2	240.6	280.4	249.4	212.3	208.5	202.6
72.5°	311.6	212.1	158.9	165.5	179.7	214.4	257.5	229.3	194.1	185.8	177.8
75°	186.0	155.1	140.4	146.2	156.3	186.4	228.7	208.9	176.9	165.9	157.6
77.5°	139.1	118.6	119.9	126.2	134.3	163.1	202.6	192.8	163.6	155.1	149.5
80°	100.1	90.1	97.8	104.6	113.1	148.3	194.1	178.2	147.9	136.6	131.3
82.5°	66.8	64.7	73.6	80.6	88.9	129.8	182.4	156.1	126.4	112.0	100.3
85°	36.9	39.0	49.6	52.6	59.8	91.4	149.5	125.4	95.2	76.6	73.2
87.5°	15.3	18.0	26.7	25.7	31.8	54.5	98.4	75.7	60.5	45.2	35.2
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)