

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: P320945

Luminaire Tested: **GAN-SA1A-740-U-AFL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P320945  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA1A-740-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5007 lumens  
Efficiency: N/A  
Efficacy: 147.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

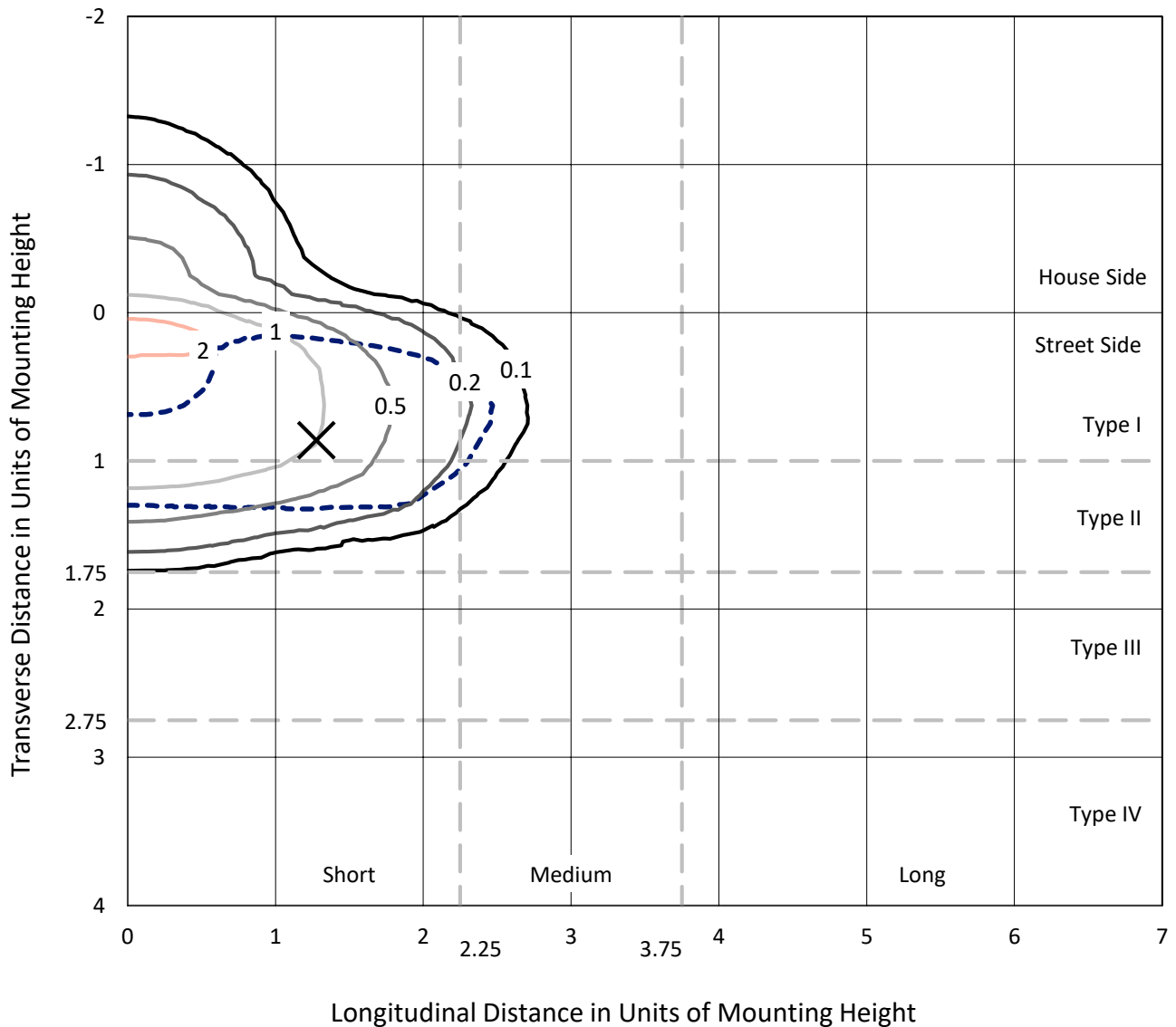
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

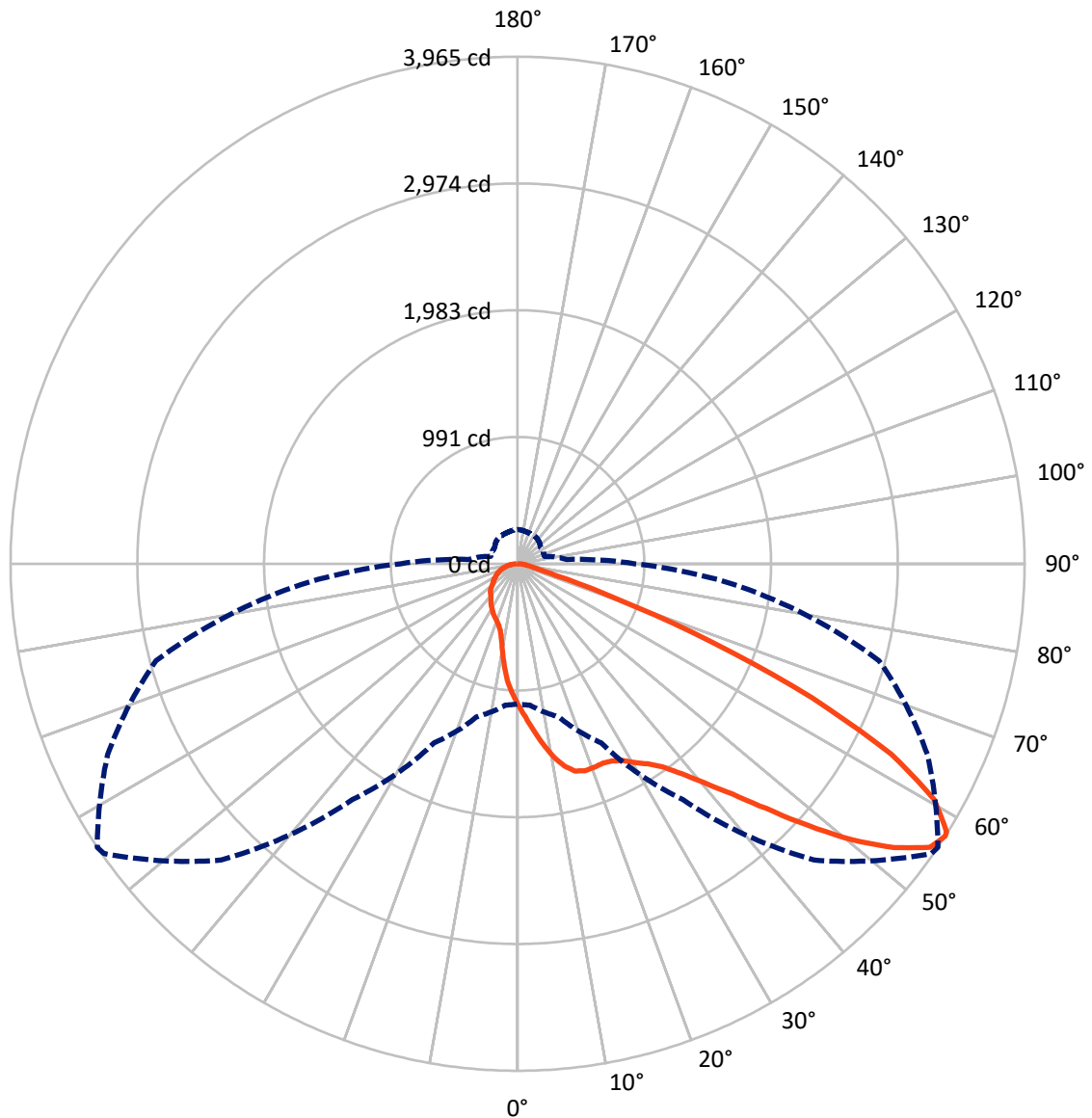
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 57-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	863.1	0.0	863.1
	% Fixture	17.2	0.0	17.2
<b>Street Side</b>	Lumens	4143.9	0.0	4143.9
	% Fixture	82.8	0.0	82.8
<b>Total</b>	Lumens	5007.0	0.0	5007.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.1	2.1
10°-20°	299.9	6.0
20°-30°	488.5	9.8
30°-40°	730.3	14.6
40°-50°	1107.7	22.1
50°-60°	1241.5	24.8
60°-70°	733.3	14.6
70°-80°	240.3	4.8
80°-90°	59.4	1.2
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°	5007.0	100.0
0°-180°	5007.0	100.0

**Coefficient of Utilization**

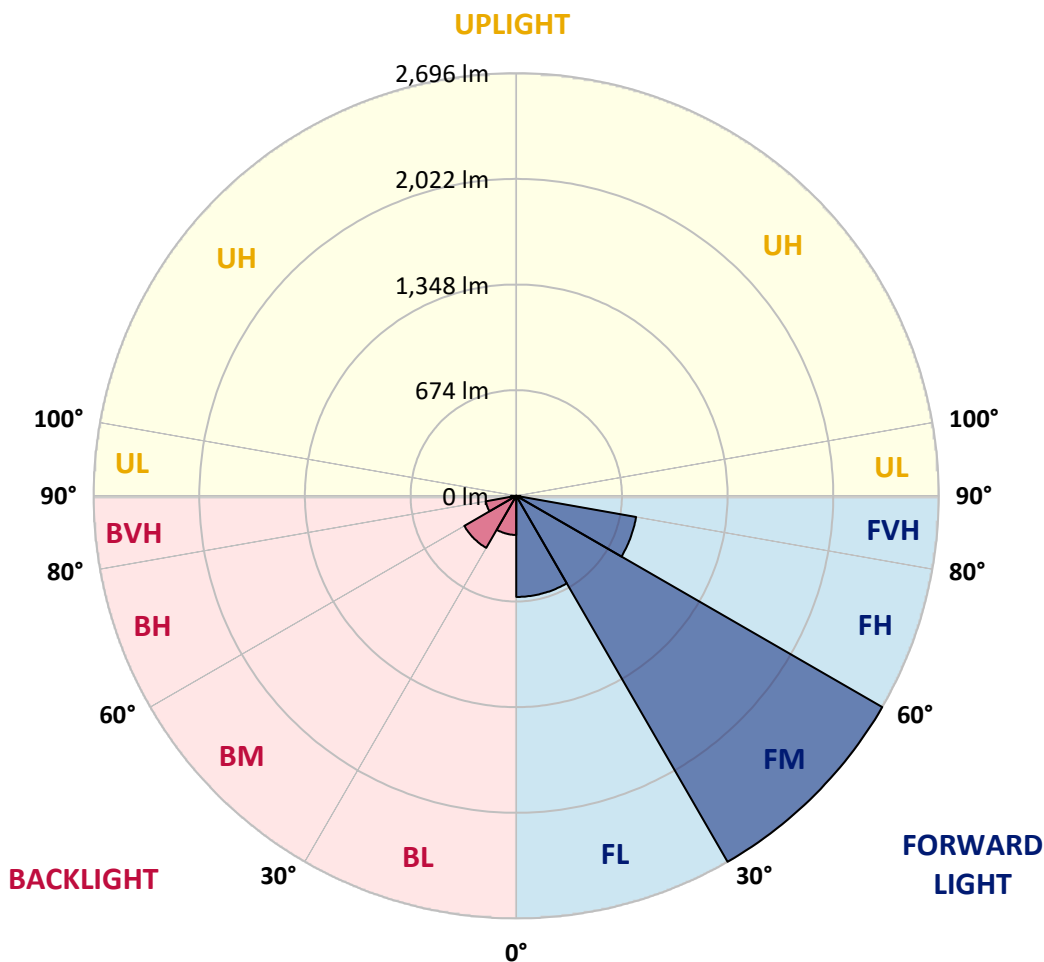


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	645.0	12.9			
FM (30°-60°)	2696.4	53.9			
FH (60°-80°)	776.3	15.5			G1/1800
FVH (80°-90°)	26.1	0.5			G1/100
BL (0°-30°)	249.6	5.0	B1/500		
BM (30°-60°)	383.1	7.7	B1/1000		
BH (60°-80°)	197.2	3.9	B1/500		G1/500
BVH (80°-90°)	33.2	0.7			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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1110.6	1110.6	1110.6	1110.6	1110.6	1110.6	1110.6	1110.6	1110.6	1110.6	1110.6
2.5°	1275.2	1286.9	1281.8	1263.9	1250.1	1230.7	1209.0	1202.4	1179.6	1153.9	1123.1
5°	1477.1	1471.2	1462.8	1434.9	1405.5	1371.2	1316.9	1308.3	1257.3	1199.3	1138.1
7.5°	1592.0	1591.5	1586.5	1570.2	1543.3	1498.6	1433.0	1422.9	1346.0	1252.7	1157.7
10°	1575.3	1574.1	1582.4	1599.4	1607.5	1598.2	1543.0	1532.8	1438.4	1311.7	1180.4
12.5°	1480.5	1481.2	1494.5	1530.2	1578.9	1637.4	1628.5	1623.5	1534.2	1378.5	1208.0
15°	1406.7	1408.2	1418.7	1449.9	1507.4	1613.5	1680.5	1682.2	1626.9	1452.1	1240.1
17.5°	1374.3	1377.6	1382.4	1404.3	1456.9	1565.9	1692.9	1702.1	1708.2	1528.5	1271.1
20°	1384.7	1387.8	1389.1	1403.1	1446.3	1537.0	1684.2	1700.9	1770.5	1600.4	1302.1
22.5°	1431.0	1432.8	1433.7	1437.3	1470.9	1545.2	1678.6	1696.1	1815.5	1665.0	1325.5
25°	1507.7	1506.3	1500.8	1496.2	1518.7	1577.9	1691.6	1708.3	1852.2	1723.5	1340.8
27.5°	1599.6	1597.9	1587.2	1574.5	1587.4	1628.8	1729.3	1742.6	1885.1	1778.2	1348.5
30°	1709.9	1705.4	1685.3	1670.1	1675.1	1705.2	1791.4	1803.5	1935.8	1840.3	1356.1
32.5°	1837.4	1832.6	1803.5	1778.4	1778.4	1803.5	1855.5	1865.4	1978.8	1910.5	1368.3
35°	1997.1	1991.1	1953.2	1911.0	1899.2	1911.9	1942.7	1949.8	2056.3	1999.0	1390.5
37.5°	2185.3	2177.2	2128.2	2071.8	2045.8	2045.1	2067.3	2081.7	2180.0	2115.1	1428.2
40°	2374.1	2368.4	2325.6	2281.2	2230.2	2213.9	2248.1	2252.6	2341.7	2259.3	1476.4
42.5°	2520.0	2519.0	2511.1	2516.9	2464.8	2431.7	2458.6	2462.2	2539.3	2415.4	1527.7
45°	2597.1	2598.8	2637.2	2722.2	2741.5	2717.4	2730.6	2731.7	2765.0	2572.8	1574.6
47.5°	2535.3	2544.3	2641.3	2831.5	2989.2	3069.3	3047.2	3060.0	2983.9	2708.1	1611.5
50°	2294.6	2305.6	2470.8	2782.8	3104.9	3409.8	3398.3	3395.3	3160.5	2807.2	1631.4
52.5°	1996.4	2005.0	2141.3	2529.6	3020.0	3598.0	3703.9	3688.7	3317.4	2881.4	1635.2
55°	1542.3	1555.7	1686.3	2024.4	2676.9	3526.1	3928.6	3915.0	3460.4	2920.2	1630.7
57°	1096.4	1110.6	1240.3	1545.0	2251.9	3277.1	3951.0	3965.4	3537.6	2926.8	1635.7
57.5°	978.4	992.9	1121.4	1417.4	2119.4	3187.1	3931.7	3955.8	3551.6	2925.8	1638.5
60°	492.6	498.2	580.1	791.2	1339.8	2576.6	3680.3	3742.4	3564.1	2875.2	1650.3
62.5°	306.3	302.3	299.8	364.4	651.8	1708.7	3161.5	3281.1	3323.8	2752.6	1621.6
65°	269.3	261.9	233.5	228.3	287.9	829.9	2380.8	2529.6	2810.1	2559.6	1553.1
67.5°	252.9	245.7	213.7	194.4	194.6	329.0	1478.1	1645.7	2189.1	2233.2	1391.6
70°	236.1	229.5	199.6	176.9	165.7	182.2	680.0	807.2	1427.0	1755.3	1163.0
72.5°	214.4	209.9	181.5	158.1	146.3	136.5	260.3	307.5	826.1	1178.9	807.7
75°	191.7	187.6	163.3	140.9	126.5	107.4	146.6	158.0	419.7	603.1	397.7
77.5°	166.7	164.3	145.2	124.6	113.1	89.0	103.8	109.3	180.0	258.6	199.4
80°	132.7	137.3	127.0	111.0	100.3	71.2	73.5	77.1	104.8	126.3	113.2
82.5°	86.4	94.5	99.5	90.2	82.6	56.1	52.8	54.4	68.3	77.1	49.2
85°	36.0	40.4	65.4	59.0	54.9	41.0	35.4	36.1	42.3	43.9	20.1
87.5°	16.0	17.0	28.7	27.0	23.2	14.1	15.1	16.5	22.5	21.3	7.7
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°	1110.6	1110.6	1110.6	1110.6	1110.6	1110.6	1110.6	1110.6	1110.6	1110.6	1110.6
2.5°	1111.6	1097.1	1072.4	1045.0	1022.6	1004.7	986.7	974.3	959.8	952.1	948.1
5°	1112.4	1084.1	1031.9	978.4	930.6	886.9	845.2	813.2	783.3	767.1	762.6
7.5°	1116.1	1073.4	989.1	901.0	816.0	738.4	678.5	641.0	614.0	601.9	598.5
10°	1119.0	1060.8	936.1	805.6	690.0	611.4	564.9	543.9	534.6	533.1	531.5
12.5°	1125.9	1047.9	880.3	706.2	592.1	537.7	521.6	520.2	522.8	526.5	526.5
15°	1136.7	1035.2	816.7	620.8	529.8	510.7	514.0	521.6	528.6	534.5	535.3
17.5°	1144.6	1019.5	748.2	552.5	496.6	501.8	513.5	524.1	531.4	537.0	537.6
20°	1150.3	995.3	675.0	500.4	477.5	493.5	508.1	517.6	522.6	528.3	529.1
22.5°	1147.4	962.7	610.2	463.0	462.0	481.5	495.4	506.8	503.0	497.5	501.1
25°	1133.3	918.0	543.4	435.2	445.7	465.3	482.5	474.9	462.2	459.8	461.2
27.5°	1108.1	860.9	481.6	409.4	426.7	450.3	449.3	441.7	437.2	434.1	436.0
30°	1081.1	798.9	427.6	386.8	405.7	425.2	421.2	421.1	416.6	411.6	414.0
32.5°	1054.5	736.6	384.8	368.2	389.9	392.5	401.1	403.7	394.9	384.4	383.7
35°	1031.2	677.8	352.2	351.4	370.8	371.2	383.7	380.1	358.3	347.4	347.4
37.5°	1013.9	619.1	327.5	336.2	345.7	354.6	361.0	346.0	342.4	336.4	336.2
40°	1006.3	567.5	312.0	324.7	328.0	339.3	323.0	328.8	330.6	327.5	327.5
42.5°	998.4	522.6	298.5	315.9	315.4	313.9	305.6	313.2	320.1	320.2	319.7
45°	990.5	483.9	286.7	297.2	304.4	287.7	289.3	297.3	307.0	310.4	310.4
47.5°	981.7	453.2	275.8	277.4	288.6	277.4	276.2	282.4	293.7	299.2	300.4
50°	962.4	425.7	263.4	260.0	263.1	266.9	267.9	270.8	283.4	292.2	294.2
52.5°	935.7	401.1	247.6	244.0	244.0	258.3	263.1	264.0	274.6	285.1	287.2
55°	913.5	385.4	231.3	230.6	229.9	249.2	257.4	258.8	266.2	274.5	275.5
57°	915.1	384.2	218.7	219.4	219.2	239.9	252.1	255.0	258.8	265.9	267.1
57.5°	915.9	385.1	216.0	216.3	216.1	237.3	250.5	253.8	256.7	264.1	265.3
60°	928.8	387.3	204.8	201.0	201.8	223.5	241.8	245.9	247.8	257.6	259.1
62.5°	909.7	377.4	195.8	186.7	186.7	209.1	229.5	236.1	239.0	252.3	254.8
65°	854.3	349.3	185.3	170.5	172.2	194.6	214.9	225.6	230.1	246.6	249.3
67.5°	768.8	316.8	174.1	156.1	157.8	179.5	199.8	211.3	218.4	240.4	242.6
70°	657.5	277.0	159.0	140.8	142.8	163.0	181.9	195.0	205.5	234.5	235.2
72.5°	484.7	227.1	137.8	123.9	126.1	143.7	163.8	179.0	193.1	219.9	219.6
75°	288.2	177.6	114.4	106.9	108.4	124.8	147.5	165.9	187.0	214.2	217.5
77.5°	174.8	133.7	93.3	89.5	91.4	108.1	135.8	155.4	184.5	202.0	201.0
80°	105.7	95.5	74.5	72.1	74.0	92.4	125.6	147.5	161.2	172.6	172.6
82.5°	55.2	58.3	54.7	52.8	55.4	75.0	114.3	128.7	142.5	122.3	114.3
85°	22.5	30.5	33.2	33.0	34.6	52.0	98.6	110.1	91.9	87.2	89.3
87.5°	7.6	12.9	16.2	13.9	14.6	32.7	68.3	53.2	63.2	44.1	41.8
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)