

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: P268299

Luminaire Tested: **GAN-AF-02-LED-U-T2-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268299
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-02-LED-U-T2-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8388.7 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B2 - U0 - G2

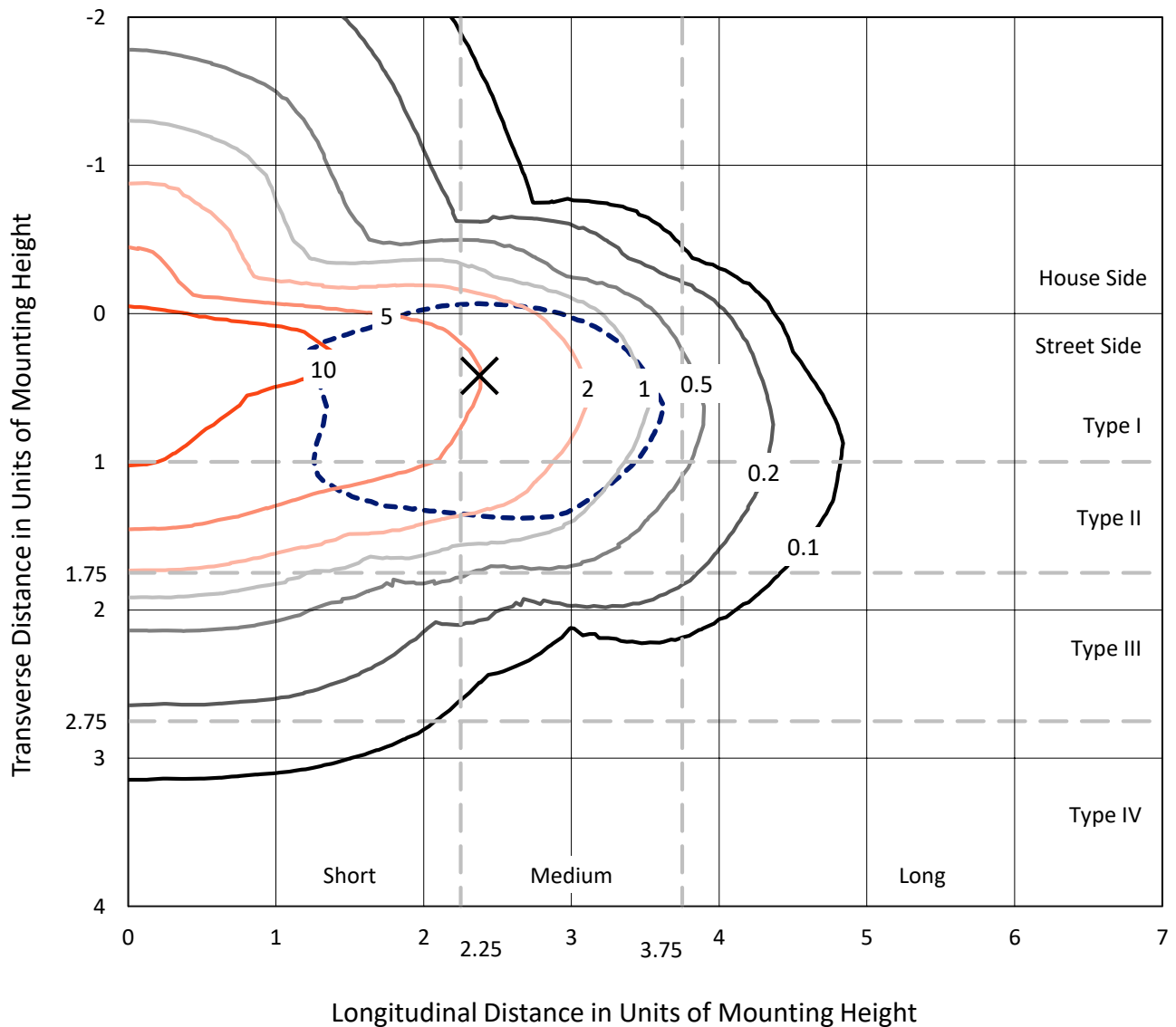
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

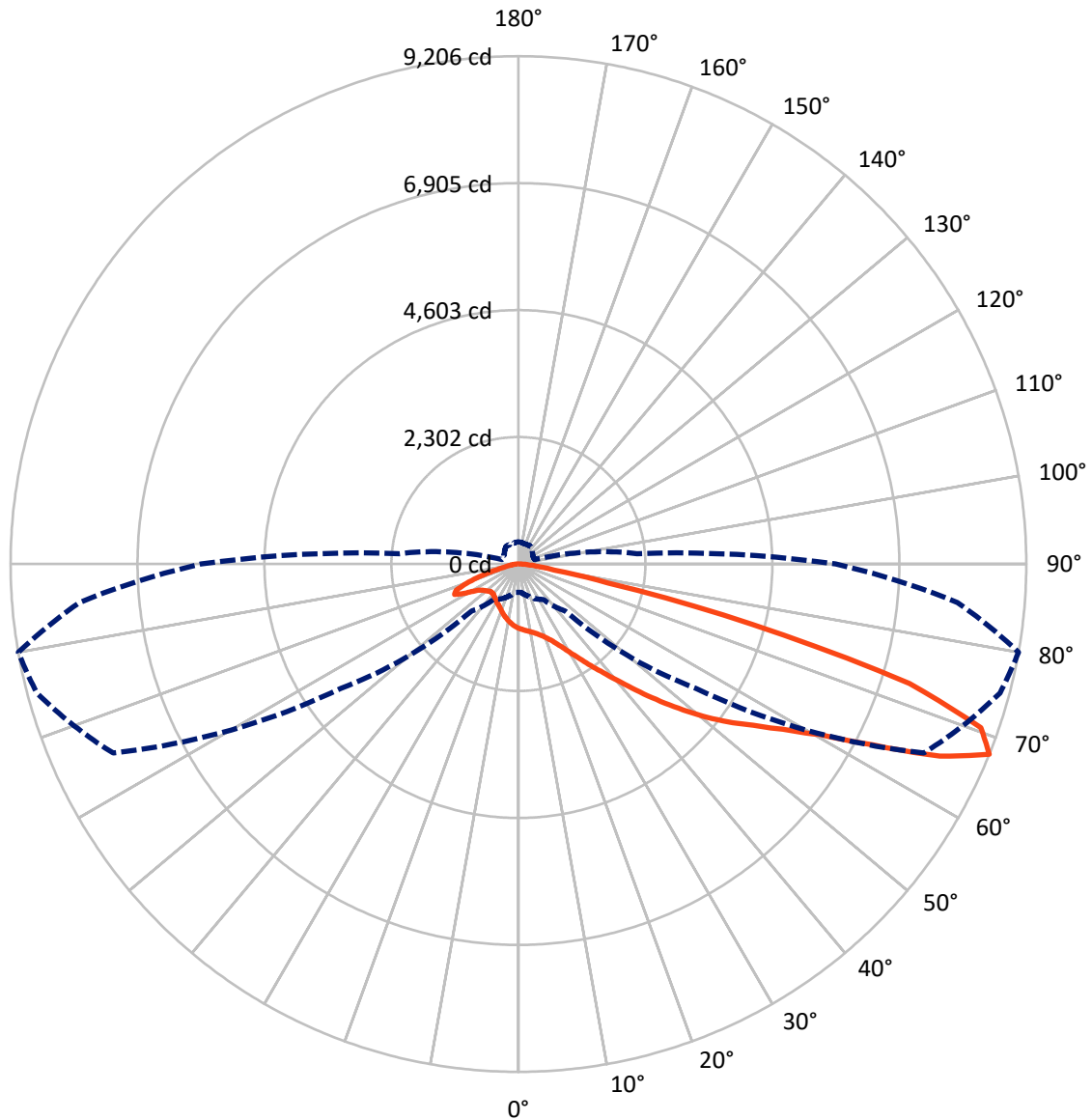
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.2 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1544.9	0.0	1544.9
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	6843.8	0.0	6843.8
	% Fixture	81.6	0.0	81.6
Total	Lumens	8388.7	0.0	8388.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.5	1.3
10°-20°	309.7	3.7
20°-30°	512.6	6.1
30°-40°	838.5	10.0
40°-50°	1353.8	16.1
50°-60°	1954.6	23.3
60°-70°	2157.0	25.7
70°-80°	994.2	11.9
80°-90°	160.8	1.9
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°	8388.7	100.0
0°-180°	8388.7	100.0



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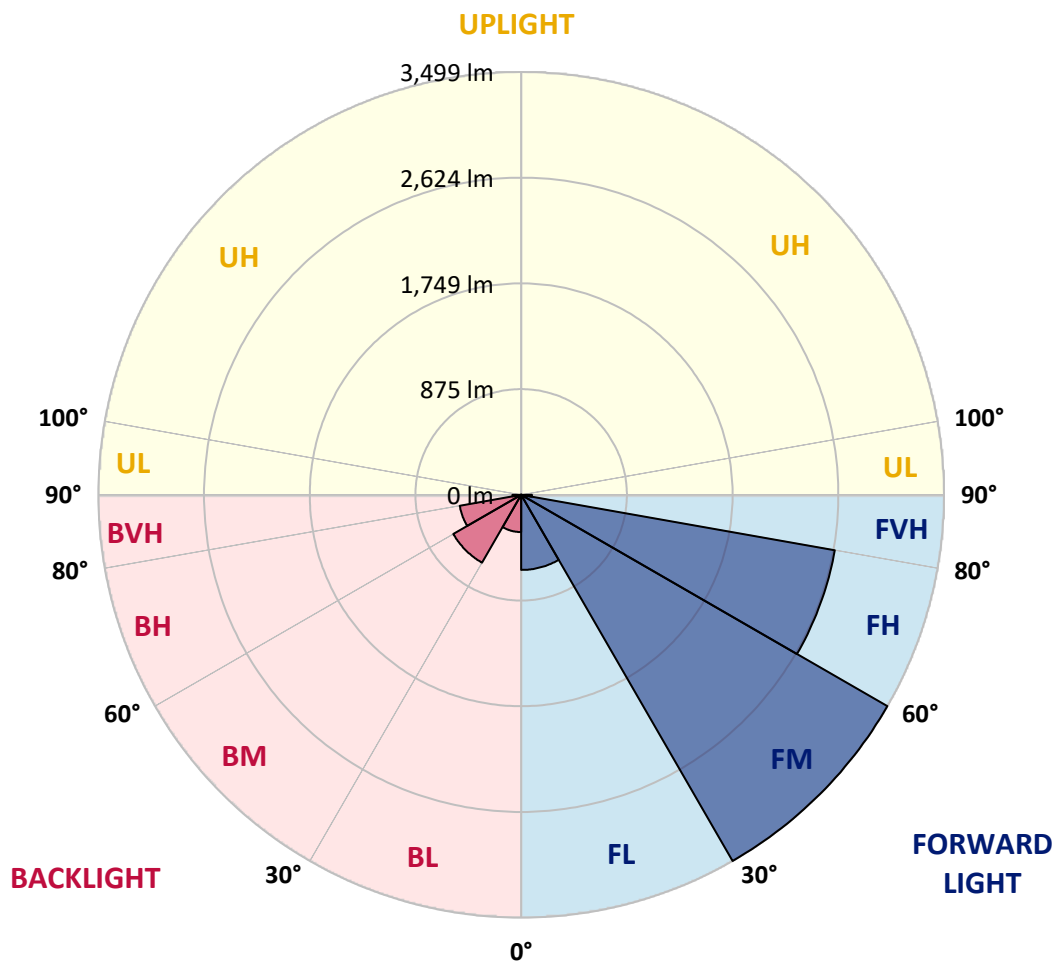
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	621.6	7.4			
FM	(30°-60°)	3498.7	41.7			
FH	(60°-80°)	2635.1	31.4			G2/5000
FVH	(80°-90°)	88.4	1.1			G1/100
BL	(0°-30°)	308.2	3.7	B1/500		
BM	(30°-60°)	648.2	7.7	B1/1000		
BH	(60°-80°)	516.1	6.2	B2/1000		G2/1000
BVH	(80°-90°)	72.4	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	1165.5	1165.5	1165.5	1165.5	1165.5	1165.5	1165.5	1165.5	1165.5	1165.5	1165.5
2.5°	1274.9	1267.5	1268.6	1266.6	1260.4	1249.7	1238.1	1217.1	1195.1	1183.5	1174.5
5°	1381.5	1379.3	1376.5	1369.8	1354.1	1331.8	1304.2	1267.0	1226.9	1206.0	1185.7
7.5°	1461.2	1459.8	1456.2	1452.0	1436.7	1409.9	1368.2	1315.4	1257.1	1228.3	1196.8
10°	1467.7	1469.7	1472.7	1483.8	1485.8	1471.5	1428.9	1365.0	1288.4	1251.2	1211.3
12.5°	1411.5	1416.1	1427.2	1455.8	1485.8	1503.7	1481.8	1416.9	1325.3	1280.3	1229.4
15°	1337.2	1339.7	1353.3	1392.6	1446.7	1501.5	1522.3	1474.4	1372.8	1317.5	1256.6
17.5°	1305.4	1306.7	1316.1	1342.2	1392.6	1471.1	1544.9	1536.7	1431.0	1363.6	1290.1
20°	1289.3	1292.2	1305.9	1331.5	1363.3	1431.8	1548.3	1604.1	1500.3	1421.5	1332.2
22.5°	1335.2	1334.0	1339.0	1351.7	1378.4	1419.9	1545.9	1673.5	1588.7	1495.8	1387.3
25°	1442.0	1446.7	1437.9	1423.5	1432.2	1461.2	1559.0	1748.6	1699.5	1591.2	1459.0
27.5°	1594.5	1590.0	1577.2	1543.3	1525.5	1538.0	1602.8	1829.5	1836.9	1716.8	1554.1
30°	1746.6	1742.8	1730.3	1689.2	1652.7	1642.5	1687.8	1922.5	2001.0	1867.4	1670.5
32.5°	1904.2	1900.2	1888.5	1847.3	1803.4	1779.5	1808.8	2029.8	2194.2	2047.5	1807.6
35°	2098.8	2091.0	2066.6	2009.1	1966.2	1947.6	1961.3	2164.8	2417.2	2260.7	1974.0
37.5°	2281.8	2293.7	2268.8	2189.6	2133.8	2127.2	2142.5	2329.7	2657.5	2498.9	2165.3
40°	2465.5	2467.6	2445.2	2380.4	2323.0	2312.2	2350.8	2529.4	2941.3	2783.8	2397.8
42.5°	2655.5	2659.6	2622.1	2562.1	2520.0	2522.1	2565.9	2763.6	3266.6	3119.6	2665.5
45°	2880.5	2886.8	2845.4	2767.0	2728.6	2805.8	2787.6	3026.3	3623.6	3501.2	2972.6
47.5°	3116.0	3125.5	3094.0	3020.6	2972.6	3078.9	3009.4	3317.5	4007.6	3910.5	3310.1
50°	3244.4	3258.1	3288.5	3283.2	3272.9	3255.1	3256.7	3629.7	4403.6	4336.7	3657.0
52.5°	3175.4	3175.0	3286.4	3422.0	3566.5	3577.3	3558.2	3958.8	4773.7	4753.4	3983.7
55°	2859.9	2881.4	3050.3	3312.5	3707.3	3953.9	4010.0	4335.8	5137.0	5160.7	4315.3
57.5°	2334.5	2352.3	2580.3	2945.8	3517.4	4177.7	4652.7	4883.9	5543.5	5653.4	4756.7
60°	1583.4	1604.8	1846.5	2285.5	3006.1	4053.1	5264.2	5861.9	6030.0	6279.8	5376.1
62.5°	930.5	949.9	1146.9	1441.7	2116.5	3473.6	5532.8	7253.3	6802.7	7225.2	6321.2
65°	640.5	653.7	749.5	897.3	1216.2	2339.5	5199.8	8213.8	7991.6	8396.4	7416.8
67.5°	515.4	513.7	589.7	690.4	783.1	1206.3	3932.1	8105.1	9037.3	9206.2	7985.5
70°	424.5	422.9	474.6	557.9	625.7	679.4	2141.6	6839.9	8824.2	8892.7	7461.9
72.5°	355.2	356.7	389.9	451.8	513.3	511.7	941.2	4811.6	6941.8	7416.0	5948.1
75°	299.9	300.7	322.5	366.2	416.8	412.1	510.4	2606.7	4035.2	4365.3	3297.3
77.5°	255.2	256.0	270.1	294.5	330.3	328.7	372.4	1126.3	1683.3	1662.7	1127.8
80°	227.5	227.5	234.2	238.7	258.5	251.0	276.3	541.0	711.5	657.1	450.1
82.5°	178.5	179.2	219.7	218.1	203.6	194.2	194.2	318.8	377.1	348.5	263.6
85°	100.3	99.9	141.7	170.9	179.2	136.7	135.5	178.5	205.3	180.9	127.6
87.5°	42.9	43.7	65.7	75.9	101.6	85.1	83.8	92.0	104.6	90.4	59.1
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°	1165.5	1165.5	1165.5	1165.5	1165.5	1165.5	1165.5	1165.5	1165.5	1165.5	1165.5
2.5°	1165.8	1155.1	1131.5	1102.2	1075.8	1058.5	1042.8	1020.0	1021.4	1005.7	994.1
5°	1165.0	1142.7	1088.1	1023.3	960.9	916.0	882.1	851.6	844.1	829.7	821.1
7.5°	1165.8	1129.4	1037.8	934.1	857.0	799.9	771.0	754.9	751.3	746.2	746.8
10°	1168.8	1117.5	982.4	850.8	769.8	732.2	725.2	730.1	735.9	737.6	738.0
12.5°	1175.3	1106.8	921.8	776.5	715.3	703.7	715.7	732.7	743.7	749.1	748.7
15°	1190.3	1098.5	863.5	718.1	685.1	691.3	713.7	737.6	753.7	761.1	761.6
17.5°	1206.3	1086.6	803.7	673.5	662.8	678.5	706.2	734.3	754.0	762.4	764.0
20°	1227.4	1071.7	740.9	640.1	641.7	659.5	685.5	713.7	735.5	742.5	745.9
22.5°	1255.0	1055.6	685.9	612.9	617.9	631.5	651.7	676.1	695.1	698.3	701.2
25°	1292.2	1038.3	642.2	588.1	590.1	598.0	611.7	626.1	639.4	635.6	638.4
27.5°	1342.2	1023.3	609.6	565.4	561.7	563.2	570.3	574.8	581.9	571.6	572.8
30°	1400.8	1007.3	584.3	545.5	535.2	532.3	534.0	536.5	541.9	527.8	525.7
32.5°	1469.0	987.9	560.8	528.3	513.7	508.0	508.8	515.4	536.1	527.3	522.9
35°	1548.3	965.9	536.1	509.2	499.3	491.1	490.3	510.9	572.4	567.0	562.9
37.5°	1641.3	944.1	511.2	487.7	488.6	479.4	476.6	500.1	579.3	558.3	555.4
40°	1759.3	932.5	490.3	465.1	475.4	474.0	468.3	480.4	533.1	494.7	489.8
42.5°	1905.6	934.1	474.6	440.7	459.7	472.9	463.7	464.2	483.2	454.4	449.7
45°	2086.0	953.6	463.3	421.2	441.8	471.6	462.1	455.5	457.1	441.8	439.5
47.5°	2296.5	993.6	455.5	405.1	425.0	467.1	461.6	453.0	449.3	441.1	439.0
50°	2530.7	1051.8	449.7	389.9	409.6	459.7	462.1	450.6	446.5	443.1	441.8
52.5°	2760.9	1118.4	441.1	376.6	397.7	450.6	463.3	448.1	443.6	441.1	439.8
55°	3017.2	1201.4	427.9	365.5	387.8	439.0	463.3	444.4	439.5	439.8	439.5
57.5°	3363.8	1335.6	412.1	356.0	375.9	425.0	455.5	440.2	434.1	434.5	434.9
60°	3905.1	1572.3	393.2	346.4	360.9	408.4	444.8	431.1	425.0	426.6	427.1
62.5°	4701.4	1919.6	368.3	332.5	345.3	390.8	429.8	419.6	413.4	417.5	417.5
65°	5529.0	2226.0	337.9	314.6	328.7	371.3	411.3	405.1	398.9	408.4	408.0
67.5°	5751.6	2157.4	307.3	295.4	312.3	349.8	389.1	385.7	382.4	398.9	398.0
70°	5109.4	1732.0	279.2	275.5	294.0	326.7	365.2	365.2	363.1	375.4	372.4
72.5°	3892.7	1228.3	252.3	254.4	273.4	301.6	339.1	342.0	338.7	344.8	342.3
75°	2083.9	703.0	225.5	231.3	247.8	275.9	310.2	313.0	311.0	310.5	311.8
77.5°	692.6	343.6	197.4	206.5	221.0	249.4	280.0	284.6	279.6	278.7	278.4
80°	308.5	216.0	166.5	178.5	191.2	219.2	248.2	252.0	246.6	254.0	244.5
82.5°	198.3	142.0	133.4	146.7	159.0	189.2	216.4	217.2	212.3	246.6	210.3
85°	96.2	87.9	100.3	112.4	123.1	148.7	179.2	179.7	167.3	152.4	147.1
87.5°	47.9	51.3	67.0	77.7	83.1	102.0	130.6	128.0	122.7	111.5	102.9
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)