

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: P324975

Luminaire Tested: **GAN-SA1D-830-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324975
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1D-830-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5284 lumens
Efficiency: N/A
Efficacy: 78.9 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

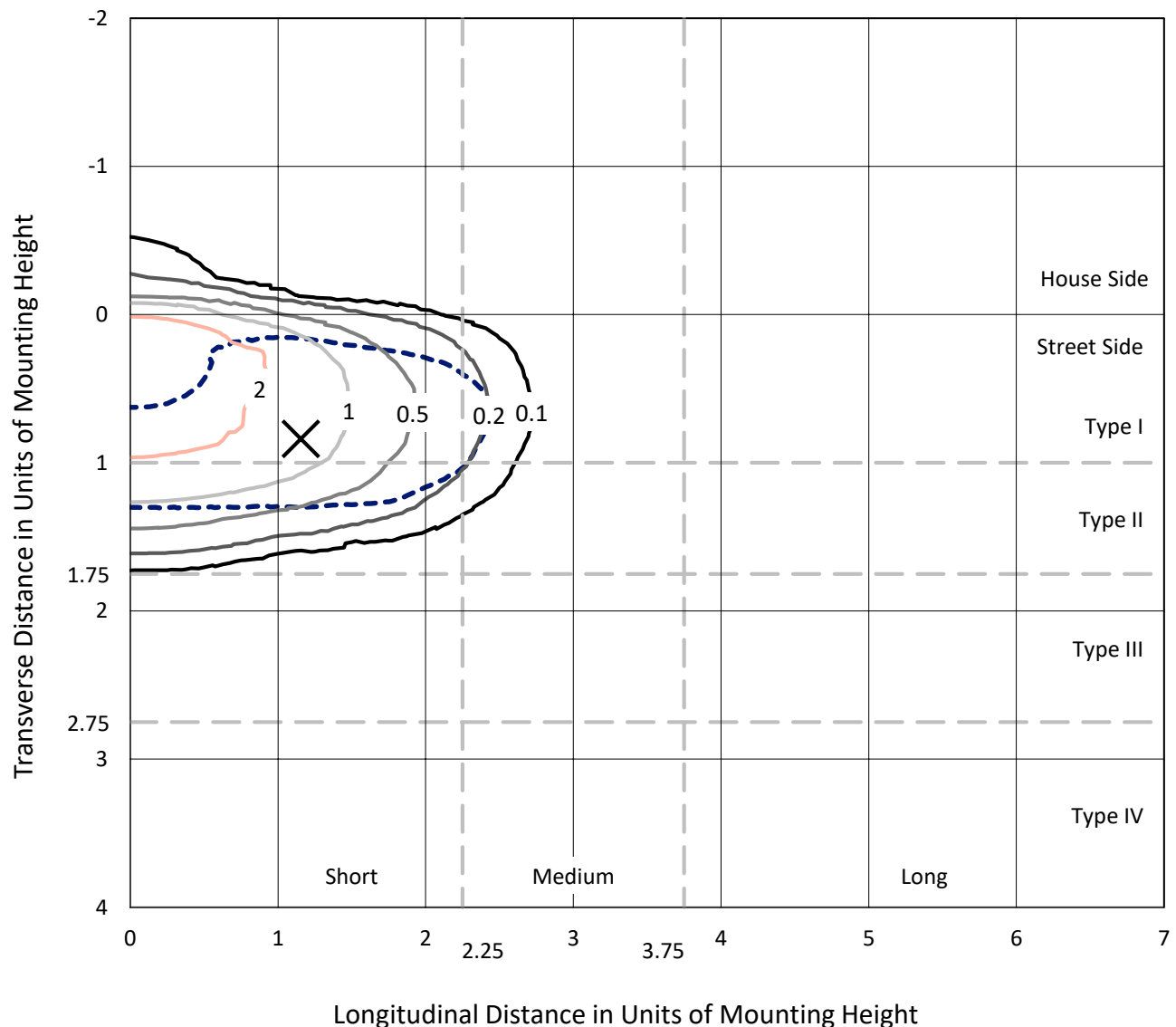
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

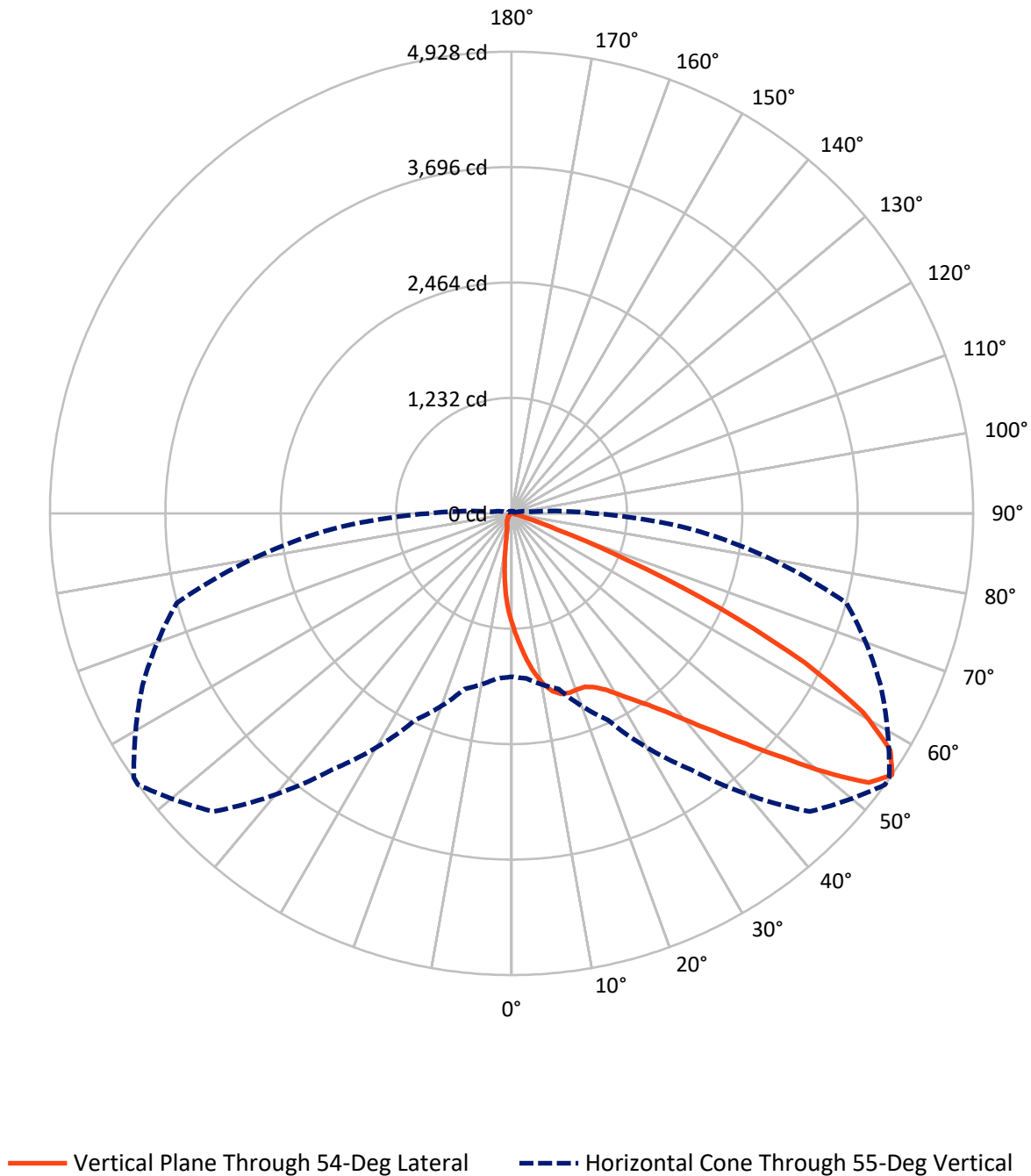
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	263.6	0.0	263.6
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	5020.4	0.0	5020.4
	% Fixture	95.0	0.0	95.0
Total	Lumens	5284.0	0.0	5284.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.0	2.1
10°-20°	298.9	5.7
20°-30°	510.3	9.7
30°-40°	818.9	15.5
40°-50°	1308.6	24.8
50°-60°	1402.2	26.5
60°-70°	719.9	13.6
70°-80°	109.1	2.1
80°-90°	7.1	0.1
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°	5284.0	100.0
0°-180°	5284.0	100.0

Coefficient of Utilization



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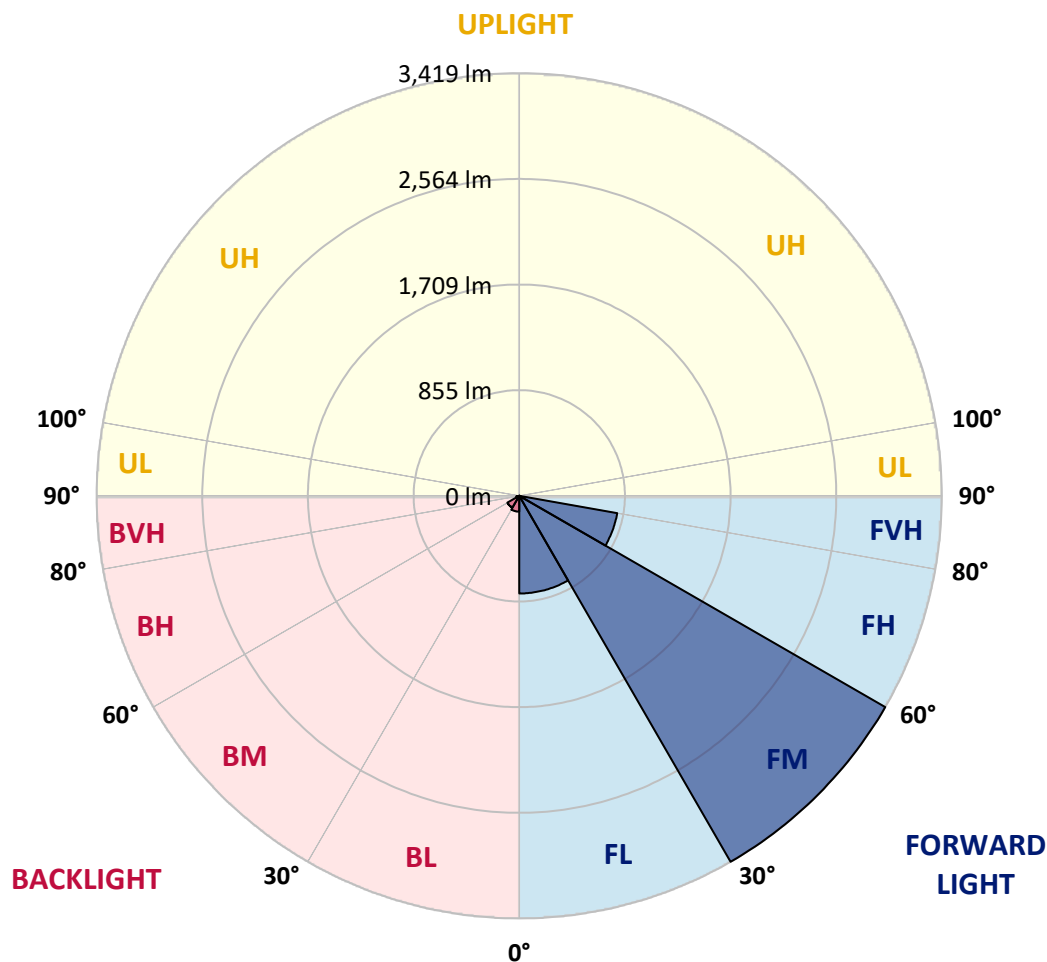
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	789.9	14.9			
FM	(30°-60°)	3419.0	64.7			
FH	(60°-80°)	804.7	15.2			G1/1800
FVH	(80°-90°)	6.8	0.1			G0/10
BL	(0°-30°)	128.3	2.4	B1/500		
BM	(30°-60°)	110.8	2.1	B0/220		
BH	(60°-80°)	24.3	0.5	B0/110		G0/110
BVH	(80°-90°)	0.3	0.0			G0/10
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°	54°	55°	65°	75°	85°
0°	1183.4	1183.4	1183.4	1183.4	1183.4	1183.4	1183.4	1183.4	1183.4	1183.4	1183.4
2.5°	1485.1	1462.9	1463.6	1453.6	1416.8	1388.1	1358.2	1351.1	1304.6	1255.7	1208.7
5°	1741.8	1725.6	1721.7	1702.3	1651.2	1597.1	1539.2	1525.7	1434.6	1334.7	1236.3
7.5°	1873.7	1873.9	1870.7	1863.6	1831.7	1779.2	1708.5	1694.3	1570.4	1420.5	1265.1
10°	1835.3	1844.0	1861.8	1885.3	1909.7	1903.1	1850.0	1837.2	1702.5	1511.3	1297.0
12.5°	1745.9	1747.0	1766.9	1805.5	1875.7	1947.8	1948.8	1944.4	1828.7	1606.2	1332.2
15°	1701.4	1705.7	1713.0	1737.9	1804.5	1920.0	2002.6	2008.8	1944.4	1707.1	1369.6
17.5°	1730.6	1736.8	1730.6	1733.6	1772.1	1876.0	2012.0	2027.7	2045.5	1806.8	1405.0
20°	1809.8	1815.5	1804.5	1792.4	1800.0	1863.2	2005.4	2026.6	2124.7	1895.4	1434.6
22.5°	1916.6	1918.9	1902.2	1882.4	1876.9	1906.5	2010.8	2032.7	2188.1	1975.5	1453.4
25°	2034.1	2036.2	2015.4	1992.6	1979.6	1991.7	2055.8	2072.2	2244.0	2051.9	1464.1
27.5°	2162.1	2163.9	2137.9	2109.9	2094.8	2095.3	2129.9	2147.5	2303.6	2139.1	1472.8
30°	2297.4	2296.5	2272.6	2233.5	2214.4	2213.9	2236.7	2254.5	2389.9	2250.9	1484.6
32.5°	2449.4	2447.6	2413.6	2365.2	2343.5	2346.7	2367.0	2377.3	2496.9	2370.0	1505.8
35°	2649.5	2644.3	2592.9	2532.9	2493.0	2491.9	2509.0	2517.2	2633.3	2514.2	1541.2
37.5°	2909.2	2904.4	2834.8	2747.7	2691.5	2670.5	2690.8	2701.3	2828.0	2699.3	1598.0
40°	3165.3	3160.5	3119.2	3039.3	2952.8	2902.4	2918.3	2929.5	3071.0	2923.8	1669.7
42.5°	3341.9	3346.0	3360.4	3367.0	3286.0	3180.1	3187.4	3199.0	3326.4	3163.9	1751.6
45°	3388.4	3397.3	3478.6	3638.1	3668.4	3585.8	3509.4	3515.8	3585.8	3403.9	1833.5
47.5°	3248.5	3265.0	3421.7	3718.4	3975.3	4033.8	3889.1	3880.6	3834.8	3598.1	1891.7
50°	2930.7	2945.7	3148.8	3587.6	4068.4	4461.4	4344.1	4319.2	4053.1	3714.3	1912.2
52.5°	2470.6	2488.9	2653.9	3176.0	3893.0	4652.2	4774.9	4754.2	4213.3	3723.4	1915.7
55°	1744.8	1766.9	1941.5	2434.1	3336.9	4500.4	4927.6	4921.4	4346.4	3699.2	1923.0
57.5°	980.5	996.5	1184.8	1560.4	2443.9	3919.9	4768.1	4808.9	4426.7	3657.2	1933.9
60°	435.4	439.7	537.2	776.8	1430.8	2995.7	4311.5	4380.4	4357.8	3601.1	1952.4
62.5°	241.4	237.8	237.8	322.9	621.8	1854.5	3515.8	3629.6	4063.6	3534.7	1953.3
65°	189.2	185.7	175.9	177.3	236.9	823.1	2434.6	2637.0	3505.0	3340.0	1887.6
67.5°	160.4	157.5	147.6	143.8	147.2	271.5	1337.7	1547.8	2659.6	2834.1	1635.0
70°	135.5	133.5	128.5	123.7	115.0	134.2	511.8	654.7	1638.9	1885.3	1116.1
72.5°	109.1	108.2	110.0	105.9	95.4	89.5	175.0	212.0	736.1	841.3	459.8
75°	94.0	93.6	94.5	90.4	78.5	62.3	89.0	97.2	207.7	205.8	93.1
77.5°	61.2	61.8	78.3	76.4	67.5	41.5	46.1	49.7	63.0	47.2	28.3
80°	39.0	38.6	39.7	63.4	60.7	31.7	23.0	24.2	30.3	23.3	13.7
82.5°	23.7	23.3	26.0	29.7	30.6	22.1	14.1	14.4	18.9	15.1	7.3
85°	2.1	2.7	15.7	14.6	10.5	6.8	6.8	7.3	10.0	8.9	4.1
87.5°	0.0	0.0	2.7	4.1	2.3	2.5	2.5	2.7	3.9	3.9	2.1
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°	1183.4	1183.4	1183.4	1183.4	1183.4	1183.4	1183.4	1183.4	1183.4	1183.4	1183.4
2.5°	1184.3	1160.6	1112.7	1066.6	1027.5	989.9	947.0	904.6	884.7	876.7	868.5
5°	1186.4	1137.5	1038.7	939.2	836.1	743.2	664.0	582.8	542.2	524.4	516.2
7.5°	1189.1	1114.7	955.0	787.9	621.8	495.9	385.9	315.1	284.6	279.8	267.9
10°	1189.6	1087.1	857.8	620.9	416.9	298.9	230.0	193.5	180.0	177.8	173.9
12.5°	1190.5	1054.5	749.8	459.8	277.9	199.9	166.4	154.3	150.6	150.4	150.4
15°	1193.2	1020.2	637.8	331.3	199.7	158.4	146.0	141.3	139.9	140.6	140.3
17.5°	1193.2	979.9	527.8	246.9	161.3	142.4	135.5	132.4	131.9	132.6	132.8
20°	1184.5	930.8	426.9	192.1	143.1	132.1	126.0	123.0	121.9	122.3	122.5
22.5°	1163.8	870.6	344.8	159.0	131.0	122.8	116.1	111.6	109.8	110.0	110.0
25°	1131.4	799.1	269.7	137.6	121.2	112.7	105.0	99.7	98.6	98.4	98.8
27.5°	1089.8	720.2	214.7	121.2	109.5	101.5	93.8	89.5	88.5	88.8	89.0
30°	1049.0	638.3	169.3	107.3	96.5	89.0	83.1	81.0	81.0	81.7	81.9
32.5°	1011.6	559.5	133.9	95.2	84.9	78.0	74.6	74.4	75.5	76.0	76.2
35°	979.4	486.7	110.9	85.8	75.8	69.8	68.7	69.6	71.0	71.9	72.1
37.5°	956.6	421.7	97.0	78.0	68.7	63.9	63.7	65.5	67.3	69.4	69.8
40°	947.0	366.7	87.4	71.2	63.0	59.3	58.6	61.2	64.6	67.5	68.0
42.5°	939.0	321.8	79.2	64.6	58.4	53.2	52.9	56.1	60.2	63.2	63.9
45°	932.2	285.7	71.7	57.5	52.5	45.6	46.3	50.4	53.6	56.8	57.5
47.5°	918.0	256.0	63.4	50.0	43.4	39.0	40.4	44.0	46.6	51.3	52.0
50°	892.7	231.8	55.0	40.8	35.4	33.8	35.8	38.3	41.5	45.6	46.1
52.5°	875.6	213.6	47.7	34.2	29.2	29.7	31.7	32.6	34.5	36.1	35.6
55°	865.8	203.5	41.8	29.7	24.9	26.2	26.7	25.6	24.6	23.0	22.4
57.5°	864.6	194.4	37.2	25.8	21.9	22.6	21.0	17.1	13.9	12.1	11.6
60°	862.8	183.2	33.5	21.7	19.4	18.5	15.1	9.4	6.6	6.2	6.2
62.5°	842.9	165.9	30.8	18.3	16.4	13.9	8.7	4.3	3.7	3.9	3.9
65°	779.7	141.7	28.1	14.8	13.0	10.0	4.3	2.5	1.4	1.6	1.6
67.5°	662.9	113.0	25.1	11.4	9.8	6.4	2.5	1.1	0.0	0.0	0.0
70°	443.8	70.1	21.2	8.0	6.4	3.9	1.8	0.2	0.0	0.0	0.0
72.5°	170.2	37.9	17.1	4.8	4.1	2.7	1.1	0.0	0.0	0.0	0.0
75°	38.3	24.9	11.9	3.4	3.0	1.8	0.5	0.0	0.0	0.0	0.0
77.5°	14.6	18.0	6.8	2.3	2.1	1.1	0.0	0.0	0.0	0.0	0.0
80°	7.1	10.7	3.2	1.4	1.1	0.5	0.0	0.0	0.0	0.0	0.0
82.5°	3.7	4.1	1.4	0.7	0.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.1	2.1	0.7	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.1	0.7	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)