

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: P322088

Luminaire Tested: **GAN-SA4C-830-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322088
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4C-830-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16129 lumens
Efficiency: N/A
Efficacy: 71.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

Input Watts (W): 225
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

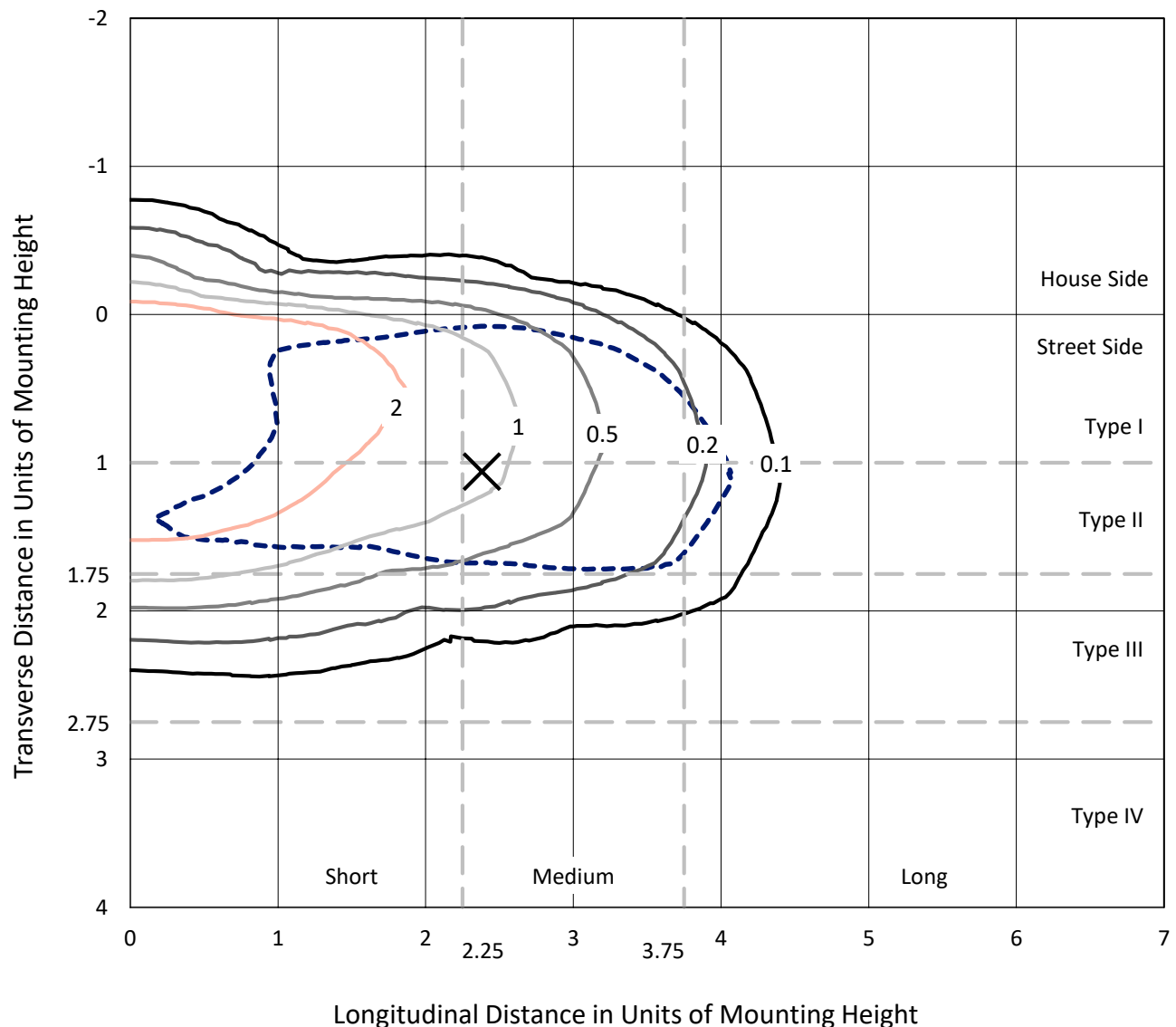


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Iso-Footcandle Lines of Horizontal Illumination

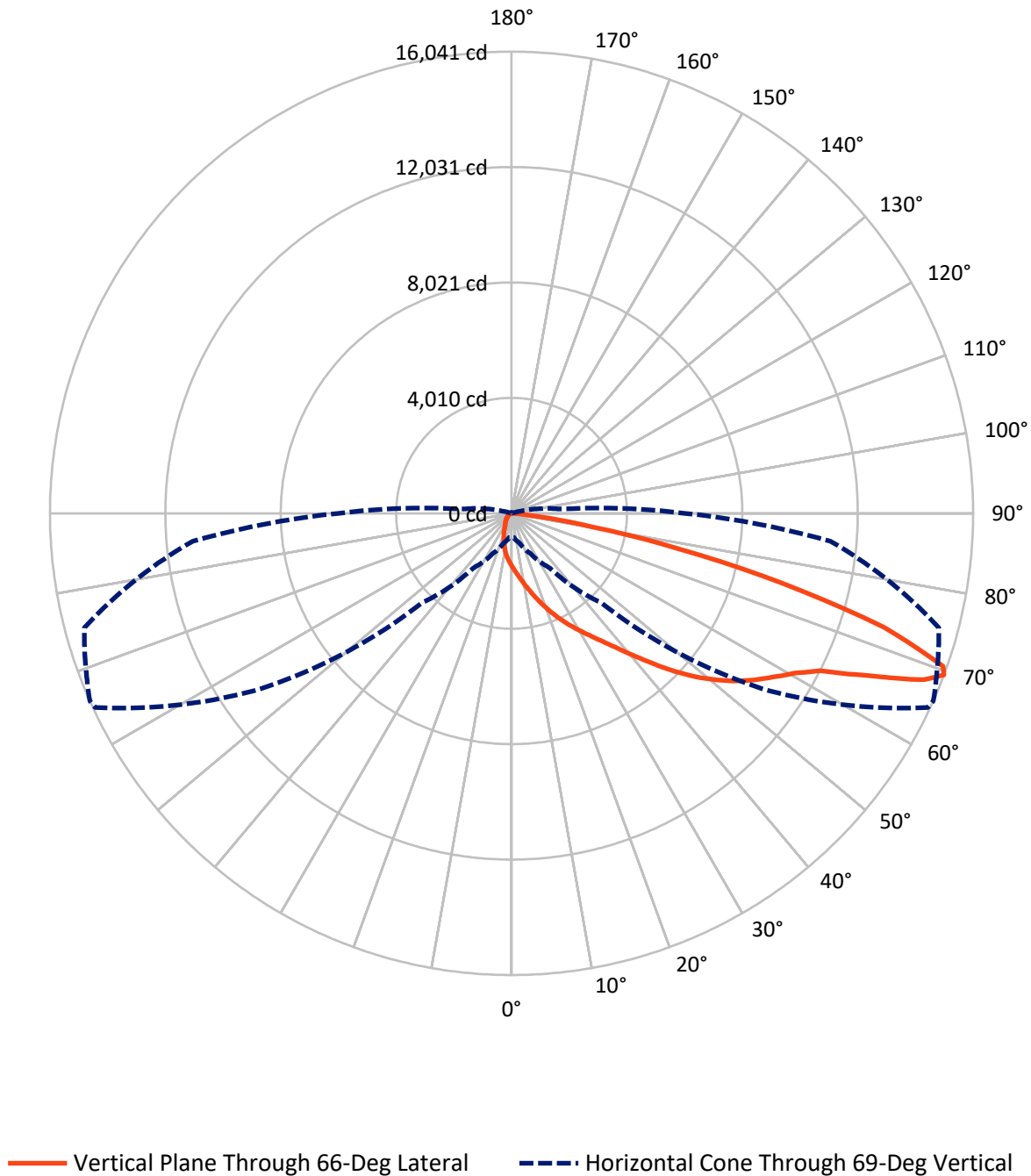
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	967.5	0.0	967.5
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	15161.5	0.0	15161.5
	% Fixture	94.0	0.0	94.0
Total	Lumens	16129.0	0.0	16129.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.4	1.1
10°-20°	528.1	3.3
20°-30°	919.5	5.7
30°-40°	1613.3	10.0
40°-50°	2700.5	16.7
50°-60°	3969.5	24.6
60°-70°	4075.6	25.3
70°-80°	2012.0	12.5
80°-90°	133.0	0.8
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°	16129.0	100.0
0°-180°	16129.0	100.0

Coefficient of Utilization



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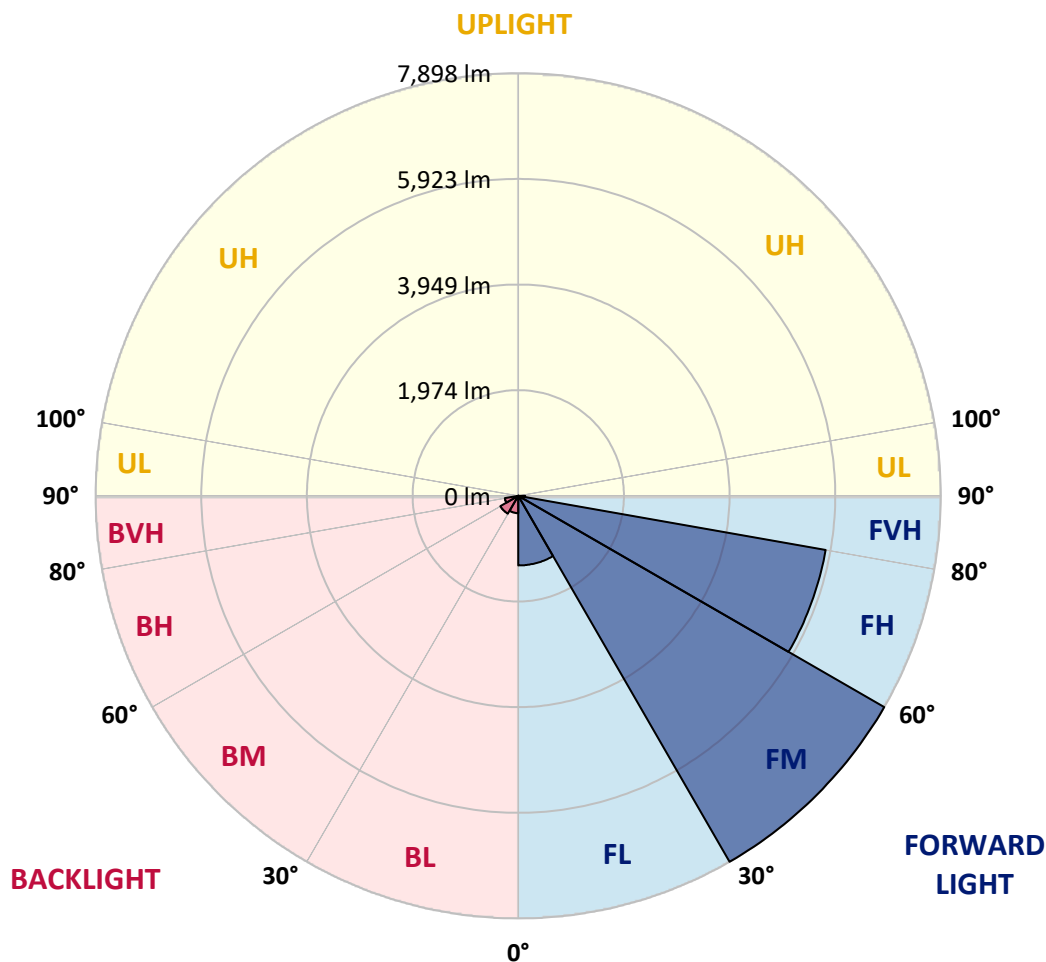
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1301.5	8.1			
FM	(30°-60°)	7897.5	49.0			
FH	(60°-80°)	5832.7	36.2			G3/7500
FVH	(80°-90°)	129.8	0.8			G2/225
BL	(0°-30°)	323.6	2.0	B1/500		
BM	(30°-60°)	385.7	2.4	B1/1000		
BH	(60°-80°)	255.0	1.6	B1/500		G1/500
BVH	(80°-90°)	3.2	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-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1835.5	1835.5	1835.5	1835.5	1835.5	1835.5	1835.5	1835.5	1835.5	1835.5	1835.5
2.5°	2160.4	2151.2	2147.3	2130.5	2101.4	2079.1	2036.2	1986.5	1977.3	1929.0	1870.0
5°	2440.7	2433.1	2427.7	2404.0	2374.1	2318.2	2240.0	2147.3	2129.7	2037.8	1919.8
7.5°	2636.1	2649.9	2649.9	2634.6	2597.0	2554.9	2459.1	2332.7	2310.5	2169.5	1986.5
10°	2750.2	2767.1	2780.1	2793.1	2787.8	2770.9	2680.5	2538.0	2511.2	2324.3	2063.8
12.5°	2761.0	2777.8	2814.6	2869.0	2921.8	2960.1	2903.5	2765.6	2734.9	2503.6	2155.8
15°	2701.2	2718.8	2775.5	2881.2	3009.2	3121.0	3139.4	3017.6	2986.2	2717.3	2270.7
17.5°	2597.0	2608.5	2689.7	2836.0	3036.7	3242.1	3353.1	3288.0	3258.9	2961.7	2398.6
20°	2519.6	2528.1	2599.3	2756.4	3019.9	3317.9	3555.4	3575.3	3544.7	3223.7	2537.3
22.5°	2652.2	2667.5	2669.8	2744.1	2973.9	3355.4	3733.1	3858.0	3835.0	3501.8	2673.6
25°	3014.5	3032.2	2973.9	2928.0	3013.0	3372.3	3885.6	4147.6	4129.2	3801.3	2810.8
27.5°	3493.3	3511.7	3436.6	3299.5	3217.5	3435.9	4021.2	4441.7	4441.0	4118.5	2958.6
30°	3963.7	3982.1	3905.5	3768.4	3579.9	3615.9	4138.4	4749.7	4754.3	4445.6	3115.7
32.5°	4457.1	4480.0	4401.1	4224.9	4028.1	3926.9	4303.1	5059.2	5085.3	4824.8	3292.6
35°	5017.8	5020.9	4909.8	4725.2	4498.4	4342.9	4567.4	5406.2	5468.3	5294.4	3517.1
37.5°	5567.9	5590.1	5498.9	5207.8	4999.4	4823.3	4960.4	5839.8	5927.9	5868.2	3810.5
40°	5975.4	6022.2	6009.1	5695.1	5497.4	5371.8	5448.4	6355.4	6467.3	6536.2	4180.5
42.5°	6231.3	6266.5	6326.3	6137.1	5957.8	5978.5	6024.5	6956.0	7093.9	7297.7	4605.7
45°	6524.7	6541.6	6591.4	6507.9	6386.8	6595.2	6635.8	7632.5	7777.3	8116.6	5077.6
47.5°	6883.2	6923.1	6936.9	6860.3	6805.1	7140.6	7224.9	8247.6	8450.6	8993.8	5577.1
50°	7339.8	7350.6	7374.3	7324.5	7269.4	7609.5	7753.5	8893.4	9078.1	9874.0	6069.7
52.5°	7786.5	7824.8	7907.5	7876.1	7853.9	8008.6	8224.7	9475.7	9681.7	10607.9	6561.5
55°	7915.2	7948.1	8233.8	8429.2	8610.0	8500.4	8675.1	9997.4	10220.3	11263.7	7034.9
57.5°	7401.1	7467.8	7962.7	8471.3	9221.3	9265.0	9294.1	10532.9	10732.8	11766.3	7527.5
60°	6101.8	6114.9	6926.9	7799.5	9120.2	9932.3	10198.1	11108.2	11276.0	12234.3	8117.4
62.5°	3881.0	4013.5	4904.5	6136.3	8050.8	9835.7	11291.3	11978.5	12039.7	12795.9	8963.2
65°	1848.6	1934.4	2576.3	3791.3	5831.4	8600.0	12045.9	13552.8	13580.3	13909.0	10093.1
67.5°	1023.5	1064.9	1370.5	2040.8	3409.1	6081.9	11741.0	15417.4	15443.4	15045.8	11084.4
69°	800.6	835.8	1076.3	1538.3	2311.3	4371.3	10624.8	15963.6	16041.0	15371.4	11119.7
70°	679.5	714.0	927.0	1299.3	1858.5	3377.7	9457.3	15828.0	15910.0	15340.8	10856.9
72.5°	416.0	435.9	617.5	914.7	1245.6	1699.2	5832.2	13385.7	13524.4	14072.2	9330.9
75°	280.4	291.1	386.1	631.3	891.0	874.9	3029.9	9435.1	9735.4	10946.5	6891.7
77.5°	200.7	210.7	258.9	408.3	624.4	577.6	1372.1	5863.6	5927.9	6565.3	3758.4
80°	114.1	123.3	183.1	242.8	423.6	385.3	545.5	2800.8	2833.0	2815.4	1254.8
82.5°	59.8	67.4	100.4	160.1	272.0	252.0	226.8	937.7	942.3	783.7	275.0
85°	11.5	13.8	49.8	109.5	140.2	109.5	92.7	219.9	224.5	198.4	68.2
87.5°	0.0	0.8	19.9	24.5	27.6	28.3	29.9	42.9	46.0	62.1	18.4
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°	1835.5	1835.5	1835.5	1835.5	1835.5	1835.5	1835.5	1835.5	1835.5	1835.5	1835.5
2.5°	1844.0	1816.4	1763.5	1702.2	1654.7	1608.0	1571.2	1532.9	1519.1	1512.2	1511.5
5°	1862.3	1804.1	1692.3	1577.4	1483.1	1394.3	1330.7	1270.2	1241.8	1228.8	1223.4
7.5°	1893.0	1799.5	1619.5	1444.1	1308.5	1197.4	1109.3	1043.4	1010.5	996.7	991.3
10°	1929.0	1793.4	1534.5	1303.1	1130.0	1015.1	927.7	862.6	826.6	811.3	803.6
12.5°	1971.1	1782.7	1436.4	1160.6	977.5	862.6	756.9	676.5	635.1	617.5	609.0
15°	2023.2	1771.9	1333.7	1026.5	843.5	703.3	587.6	533.2	524.8	521.7	522.5
17.5°	2074.5	1755.1	1221.9	894.0	702.5	549.3	490.3	487.2	488.8	488.8	488.8
20°	2120.5	1716.8	1100.1	780.6	568.4	463.5	451.2	445.9	442.0	439.0	435.1
22.5°	2156.5	1665.5	982.9	668.0	464.2	424.4	405.3	388.4	374.6	365.4	360.8
25°	2181.0	1597.3	875.6	560.0	417.5	386.1	351.6	323.3	301.8	288.8	283.5
27.5°	2199.4	1523.7	779.9	468.8	385.3	341.7	296.5	262.8	240.5	229.1	224.5
30°	2212.4	1440.2	695.6	412.2	349.3	294.9	246.7	213.7	197.6	191.5	188.5
32.5°	2224.7	1347.5	615.9	385.3	315.6	252.0	206.8	181.6	171.6	163.9	161.6
35°	2255.3	1261.7	540.1	357.0	281.2	215.3	177.7	159.3	149.4	144.8	143.3
37.5°	2328.1	1198.2	467.3	327.9	246.7	186.2	155.5	142.5	133.3	128.7	127.2
40°	2445.3	1166.0	406.0	296.5	213.0	163.9	141.0	128.7	118.7	111.8	110.3
42.5°	2617.7	1170.6	363.1	265.1	186.2	146.3	127.2	112.6	101.9	95.8	94.2
45°	2826.8	1204.3	333.2	234.4	163.9	132.5	111.8	96.5	86.6	81.2	79.7
47.5°	3053.6	1258.7	308.7	206.8	146.3	119.5	96.5	80.4	72.0	67.4	66.6
50°	3292.6	1311.5	283.5	180.0	131.0	106.5	81.2	66.6	59.8	55.9	54.4
52.5°	3534.7	1372.8	260.5	155.5	118.0	91.2	67.4	54.4	49.0	46.0	44.4
55°	3795.2	1418.8	238.3	136.4	105.0	77.4	55.9	45.2	40.6	36.8	36.0
57.5°	4101.6	1490.0	215.3	118.0	89.6	64.4	46.0	36.0	32.2	28.3	27.6
60°	4515.3	1573.5	190.8	104.2	73.5	52.9	37.5	29.1	24.5	21.5	20.7
62.5°	5060.7	1666.2	160.1	91.2	59.8	42.9	29.9	23.0	17.6	13.8	13.8
65°	5752.5	1817.1	131.0	76.6	49.0	35.2	23.0	16.9	10.0	6.1	6.1
67.5°	6156.2	1843.2	105.7	62.8	39.8	29.9	19.2	11.5	3.1	0.8	0.0
69°	6026.8	1692.3	89.6	53.6	34.5	28.3	17.6	8.4	1.5	0.0	0.0
70°	5783.2	1547.5	78.9	47.5	31.4	26.8	16.9	6.1	1.5	0.0	0.0
72.5°	4778.8	1101.6	59.8	35.2	23.0	23.7	15.3	3.8	1.5	0.0	0.0
75°	3481.1	669.6	42.9	24.5	14.6	17.6	10.7	1.5	0.8	0.0	0.0
77.5°	1936.7	315.6	26.8	13.8	9.2	10.7	5.4	0.0	0.0	0.0	0.0
80°	629.0	85.8	12.3	7.7	5.4	6.1	2.3	0.0	0.0	0.0	0.0
82.5°	116.4	24.5	6.9	3.8	1.5	1.5	0.0	0.0	0.0	0.0	0.0
85°	25.3	10.0	3.8	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.4	3.1	0.8	0.0	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)