

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: McGRAW-EDISON

Report Number: P454093

Luminaire Tested: **GALN-SA5A-830-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454093
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5A-830-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 615mA 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: 13605 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 154
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

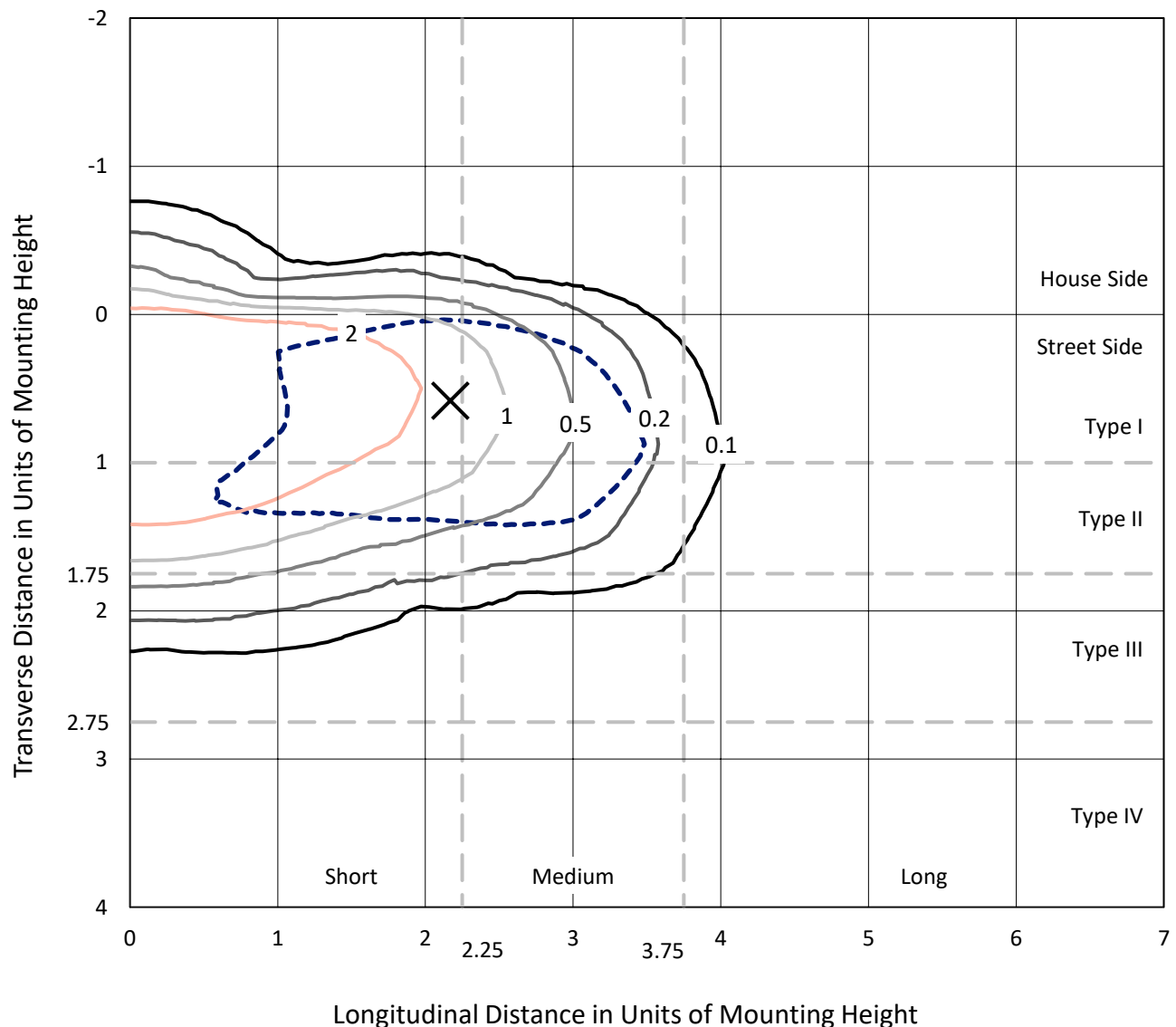


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

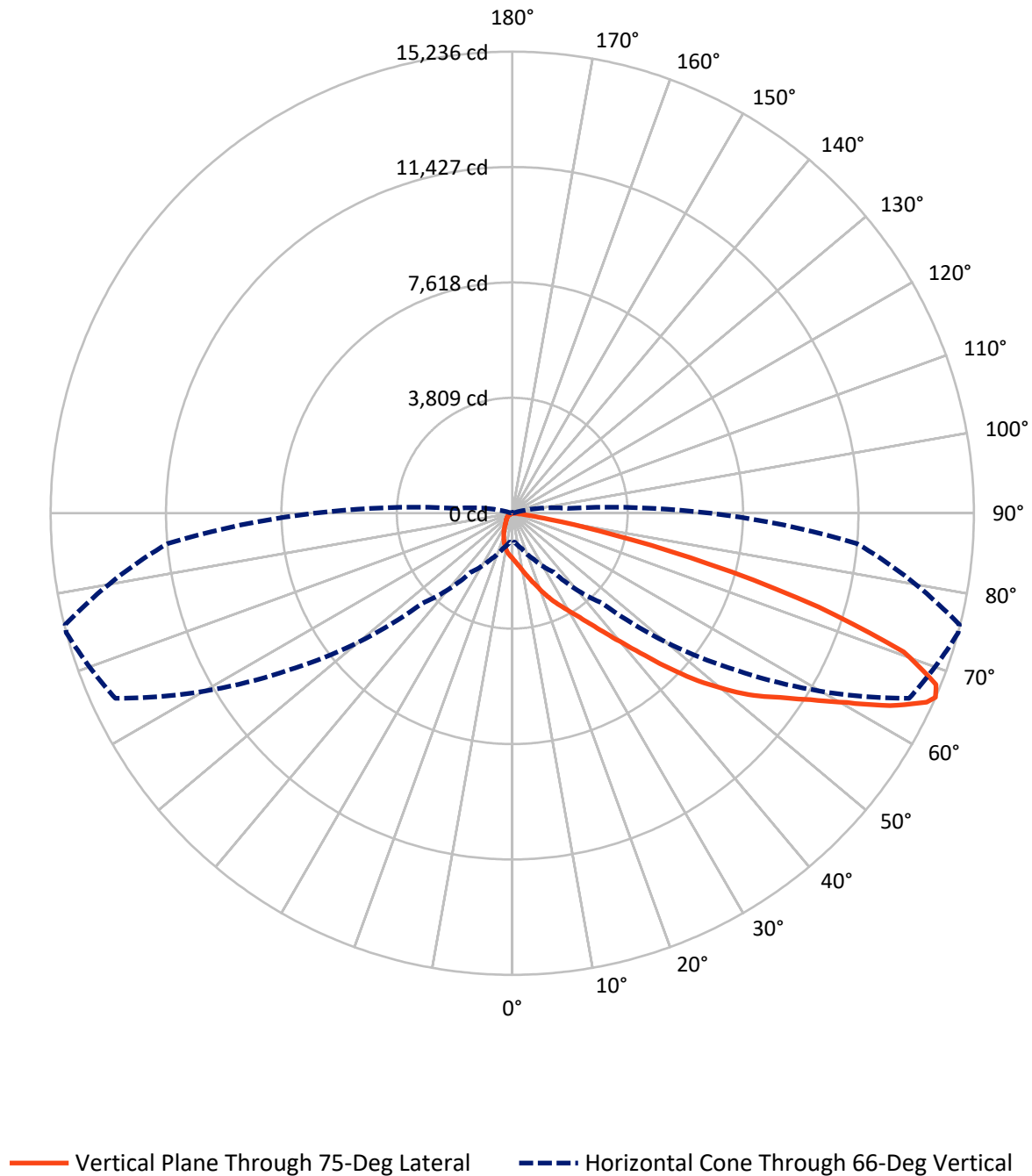


Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	839.9	0.0	839.9
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	12765.1	0.0	12765.1
	% Fixture	93.8	0.0	93.8
Total	Lumens	13605.0	0.0	13605.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.5	1.1
10°-20°	422.3	3.1
20°-30°	729.3	5.4
30°-40°	1315.5	9.7
40°-50°	2376.5	17.5
50°-60°	3704.9	27.2
60°-70°	3519.5	25.9
70°-80°	1319.0	9.7
80°-90°	74.4	0.5
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°	13605.0	100.0
0°-180°	13605.0	100.0

Coefficient of Utilization



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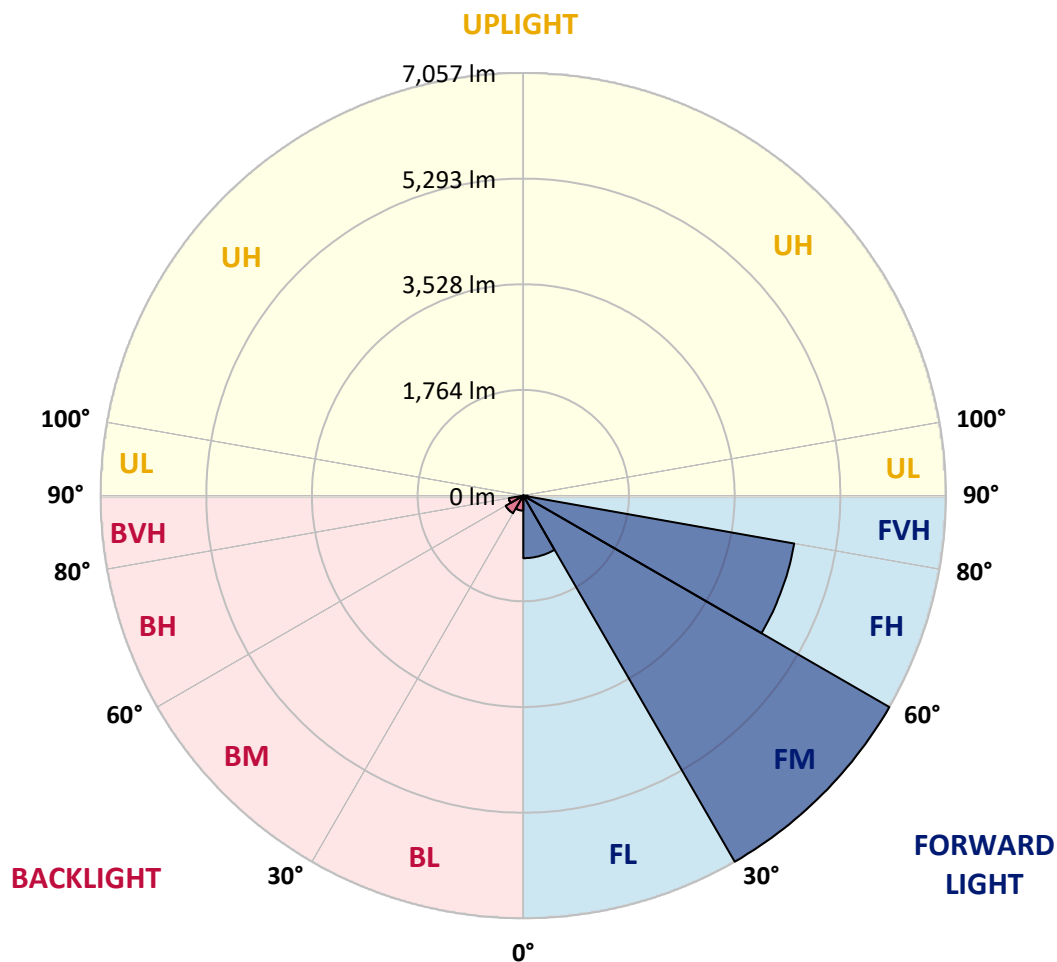
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1044.3	7.7			
FM	(30°-60°)	7056.9	51.9			
FH	(60°-80°)	4593.3	33.8			G2/5000
FVH	(80°-90°)	70.6	0.5			G1/100
BL	(0°-30°)	250.8	1.8	B1/500		
BM	(30°-60°)	340.0	2.5	B1/1000		
BH	(60°-80°)	245.3	1.8	B1/500		G1/500
BVH	(80°-90°)	3.8	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1487.8	1487.8	1487.8	1487.8	1487.8	1487.8	1487.8	1487.8	1487.8	1487.8	1487.8
2.5°	1777.6	1755.4	1762.5	1752.4	1729.3	1695.1	1664.9	1621.6	1578.4	1571.3	1523.1
5°	2012.0	2005.9	1997.9	1968.7	1952.6	1900.3	1837.9	1763.5	1673.9	1657.9	1570.3
7.5°	2171.9	2168.9	2172.9	2157.8	2143.7	2096.5	2030.1	1928.5	1789.6	1780.6	1634.7
10°	2224.2	2232.3	2247.4	2271.5	2293.6	2278.5	2228.2	2101.5	1939.5	1913.4	1708.2
12.5°	2194.0	2203.1	2239.3	2303.7	2375.1	2416.4	2396.2	2303.7	2098.5	2077.3	1790.6
15°	2116.6	2127.6	2178.9	2278.5	2406.3	2523.0	2573.3	2506.9	2283.6	2249.4	1890.2
17.5°	2001.9	2018.0	2091.4	2223.2	2398.3	2599.4	2741.3	2719.2	2480.7	2448.6	1998.9
20°	1915.4	1927.5	1989.8	2140.7	2364.0	2641.7	2901.2	2963.6	2724.2	2668.9	2126.6
22.5°	1972.7	1976.7	1997.9	2088.4	2302.7	2652.8	3042.1	3218.1	2982.7	2933.4	2259.4
25°	2253.4	2213.2	2192.0	2171.9	2289.6	2642.7	3169.8	3483.7	3240.3	3187.9	2391.2
27.5°	2696.0	2677.9	2571.3	2428.4	2401.3	2655.8	3254.3	3735.2	3482.7	3426.4	2520.0
30°	3177.9	3146.7	3081.3	2872.1	2661.8	2748.3	3315.7	3979.6	3769.4	3695.0	2637.7
32.5°	3620.5	3640.6	3543.1	3327.8	3084.3	2945.5	3395.2	4246.2	4098.4	4005.8	2774.5
35°	4136.6	4176.8	4026.9	3820.7	3536.0	3301.6	3550.1	4547.0	4515.8	4399.1	2985.7
37.5°	4660.7	4684.8	4593.3	4303.6	4047.0	3754.3	3841.8	4918.2	5029.9	4930.3	3238.2
40°	5101.3	5134.5	5067.1	4809.6	4536.0	4278.4	4265.3	5322.6	5641.5	5538.9	3614.5
42.5°	5438.3	5463.5	5465.5	5283.4	5036.9	4920.2	4805.6	5838.7	6408.1	6289.4	4051.1
45°	5863.8	5900.1	5878.9	5755.2	5571.1	5550.0	5490.6	6462.4	7325.5	7175.6	4617.4
47.5°	6521.8	6545.9	6493.6	6347.7	6160.6	6193.8	6158.6	7161.6	8261.1	8132.3	5203.9
50°	6978.5	7018.7	7093.1	7151.5	7015.7	6893.0	6788.3	7814.4	9149.4	9033.7	5803.5
52.5°	6973.4	7039.8	7275.2	7569.0	7865.7	7828.5	7527.7	8535.7	9997.4	9854.6	6366.8
55°	6503.6	6632.4	6978.5	7499.6	8321.4	8730.9	8594.1	9370.7	10729.8	10633.2	7019.7
57.5°	5533.9	5612.4	6093.2	6821.5	8066.9	9155.4	9829.4	10502.4	11608.0	11562.7	8033.7
60°	3722.1	3757.3	4376.0	5276.4	6867.8	8731.9	10734.8	11871.5	12689.4	12667.3	9217.8
62.5°	2132.7	2147.8	2596.4	3355.9	4887.0	7400.0	10811.2	13560.6	13986.1	13998.2	10587.9
65°	1147.8	1155.9	1518.0	1969.7	2973.7	5274.3	9721.8	14486.1	15034.3	15057.5	11437.0
66°	990.9	952.7	1208.2	1679.0	2366.1	4197.9	9032.7	14452.9	15235.5	15210.4	11406.8
67.5°	753.5	787.7	964.7	1290.7	1753.4	2984.7	7457.3	13810.1	15082.6	15004.2	10943.0
70°	539.2	553.3	687.1	920.5	1194.1	1637.7	4765.3	11470.2	13708.5	13602.8	9533.7
72.5°	348.1	363.2	486.9	666.0	863.1	894.3	2667.9	8287.2	10568.8	10553.7	7179.7
75°	248.5	262.6	321.9	476.8	648.9	553.3	1284.6	5585.2	6718.9	6673.7	4441.4
77.5°	180.1	187.1	215.3	311.9	463.8	396.4	595.5	2982.7	3344.9	3502.8	1962.7
80°	103.6	109.7	149.9	190.1	313.9	270.6	284.7	1197.1	1234.3	1175.0	613.6
82.5°	51.3	58.3	89.5	129.8	196.2	182.1	130.8	360.1	380.3	370.2	154.9
85°	12.1	15.1	50.3	85.5	95.6	81.5	63.4	105.6	130.8	127.8	59.4
87.5°	1.0	2.0	18.1	15.1	16.1	27.2	22.1	27.2	42.3	39.2	21.1
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°	1487.8	1487.8	1487.8	1487.8	1487.8	1487.8	1487.8	1487.8	1487.8	1487.8	1487.8
2.5°	1500.9	1481.8	1426.5	1372.2	1326.9	1279.6	1236.3	1211.2	1201.1	1190.1	1195.1
5°	1522.0	1475.8	1364.1	1267.5	1173.0	1092.5	1028.1	986.9	966.7	963.7	958.7
7.5°	1550.2	1470.7	1297.7	1146.8	1023.1	933.5	860.1	800.8	782.7	766.6	753.5
10°	1584.4	1461.7	1215.2	1020.1	888.3	775.6	679.0	608.6	572.4	562.3	569.4
12.5°	1620.6	1444.6	1128.7	903.4	751.5	607.6	518.1	482.9	472.8	468.8	469.8
15°	1656.8	1423.5	1038.2	790.7	598.6	484.9	443.6	434.6	430.6	428.5	426.5
17.5°	1690.0	1389.3	936.6	681.0	484.9	414.5	399.4	391.3	383.3	380.3	375.2
20°	1729.3	1350.0	845.0	558.3	410.4	375.2	357.1	342.0	330.0	321.9	320.9
22.5°	1766.5	1299.7	749.5	462.7	374.2	337.0	307.8	291.7	277.6	267.6	270.6
25°	1786.6	1238.4	663.9	403.4	341.0	298.8	266.6	246.5	231.4	226.3	225.3
27.5°	1786.6	1162.9	580.4	369.2	310.8	264.6	231.4	212.3	202.2	195.2	196.2
30°	1772.5	1079.4	503.0	343.0	284.7	234.4	203.2	186.1	178.1	173.0	172.0
32.5°	1761.5	999.9	436.6	317.9	257.5	208.2	181.1	168.0	160.0	154.9	154.9
35°	1778.6	931.5	385.3	292.7	232.4	188.1	164.0	151.9	143.9	139.8	138.8
37.5°	1823.8	869.2	346.1	265.6	209.2	171.0	151.9	137.8	129.8	124.7	122.7
40°	1935.5	834.0	316.9	240.4	187.1	156.9	137.8	124.7	114.7	109.7	108.6
42.5°	2114.6	835.0	288.7	217.3	170.0	144.9	125.7	110.7	99.6	94.6	93.6
45°	2384.2	873.2	266.6	195.2	154.9	131.8	112.7	96.6	86.5	81.5	81.5
47.5°	2707.1	947.6	247.5	176.0	140.8	119.7	99.6	83.5	73.4	69.4	69.4
50°	3057.2	1044.2	228.4	155.9	128.8	106.6	85.5	72.4	64.4	61.4	61.4
52.5°	3414.3	1160.9	209.2	139.8	115.7	92.5	73.4	64.4	57.3	55.3	54.3
55°	3883.1	1309.8	189.1	122.7	101.6	79.5	65.4	56.3	48.3	45.3	44.3
57.5°	4604.4	1534.1	167.0	107.6	83.5	66.4	56.3	47.3	38.2	33.2	32.2
60°	5474.5	1807.7	143.9	94.6	67.4	54.3	45.3	36.2	28.2	22.1	21.1
62.5°	6289.4	1981.8	121.7	79.5	53.3	41.2	32.2	27.2	20.1	14.1	13.1
65°	6649.5	1923.4	100.6	64.4	42.3	29.2	21.1	19.1	12.1	6.0	5.0
66°	6529.8	1836.9	92.5	58.3	38.2	25.1	18.1	16.1	9.1	3.0	3.0
67.5°	6176.7	1632.7	80.5	50.3	33.2	20.1	14.1	12.1	5.0	1.0	0.0
70°	5292.4	1320.8	63.4	37.2	24.1	14.1	8.0	6.0	3.0	0.0	0.0
72.5°	4065.2	983.8	50.3	28.2	17.1	8.0	4.0	2.0	3.0	0.0	0.0
75°	2490.8	562.3	39.2	21.1	11.1	5.0	3.0	0.0	3.0	1.0	0.0
77.5°	1105.6	252.5	26.2	14.1	8.0	4.0	2.0	0.0	2.0	1.0	0.0
80°	279.7	82.5	15.1	10.1	6.0	3.0	1.0	0.0	2.0	2.0	1.0
82.5°	76.5	30.2	11.1	8.0	5.0	3.0	1.0	0.0	2.0	2.0	2.0
85°	30.2	14.1	10.1	8.0	6.0	3.0	1.0	0.0	2.0	2.0	2.0
87.5°	14.1	10.1	10.1	9.1	7.0	3.0	1.0	0.0	2.0	1.0	2.0
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)