

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: P453397

Luminaire Tested: **GALN-SA4B-830-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453397
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-SA4B-830-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 800mA 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: 13372 lumens
Efficiency: N/A
Efficacy: 81.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 164
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

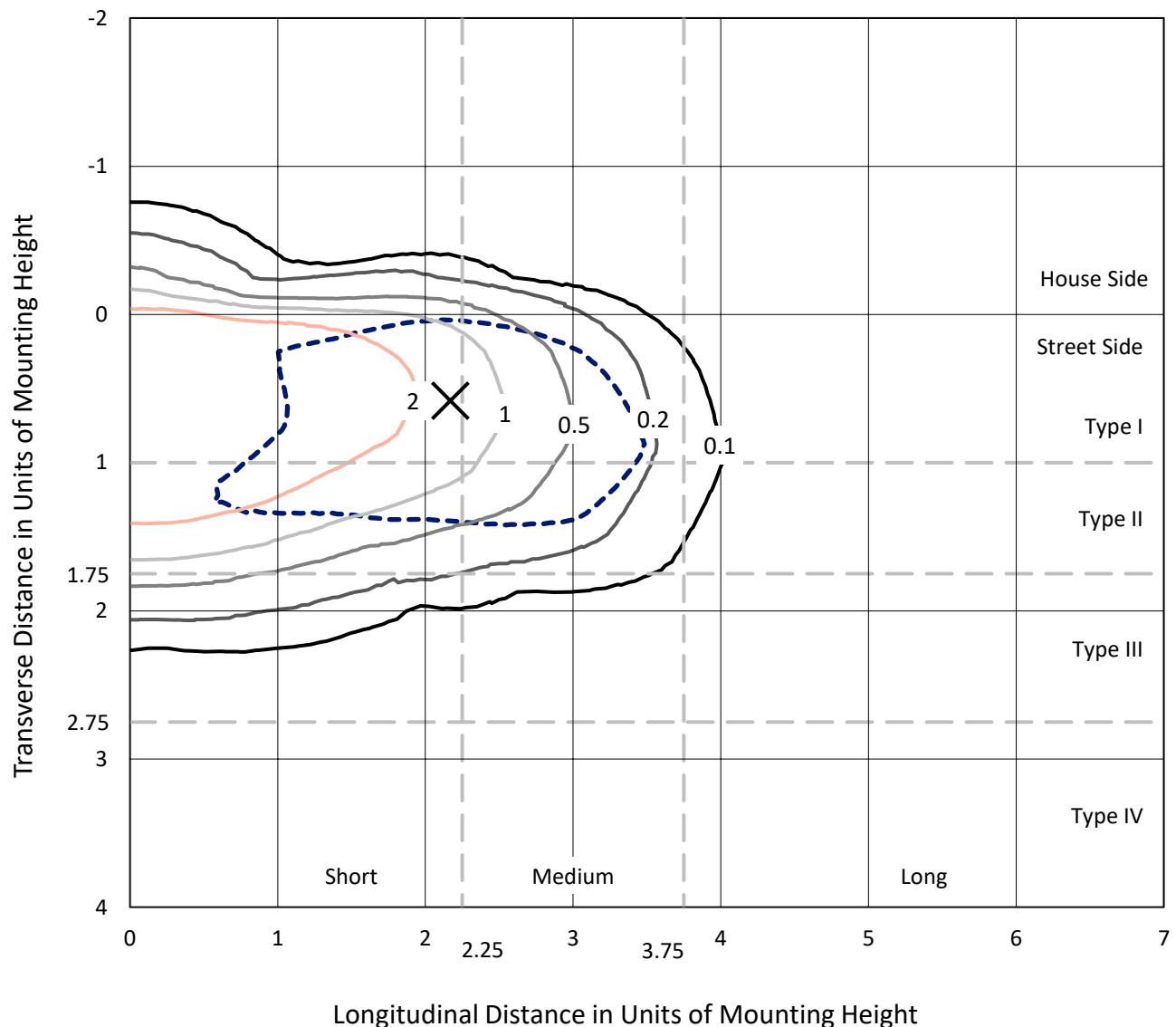


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

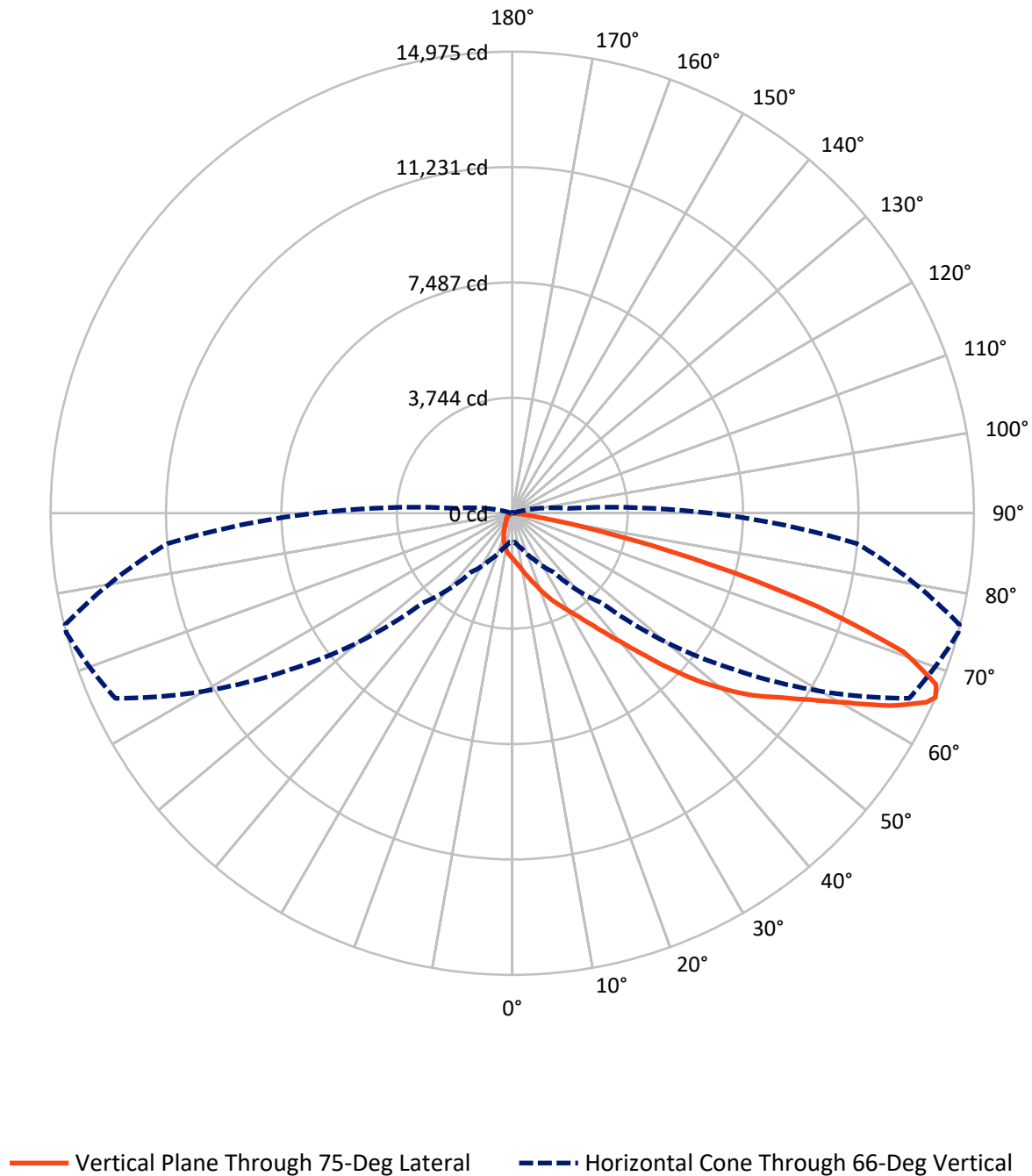


Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	825.5	0.0	825.5
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	12546.5	0.0	12546.5
	% Fixture	93.8	0.0	93.8
Total	Lumens	13372.0	0.0	13372.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.0	1.1
10°-20°	415.1	3.1
20°-30°	716.8	5.4
30°-40°	1293.0	9.7
40°-50°	2335.8	17.5
50°-60°	3641.5	27.2
60°-70°	3459.3	25.9
70°-80°	1296.4	9.7
80°-90°	73.1	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°	13372.0	100.0
0°-180°	13372.0	100.0



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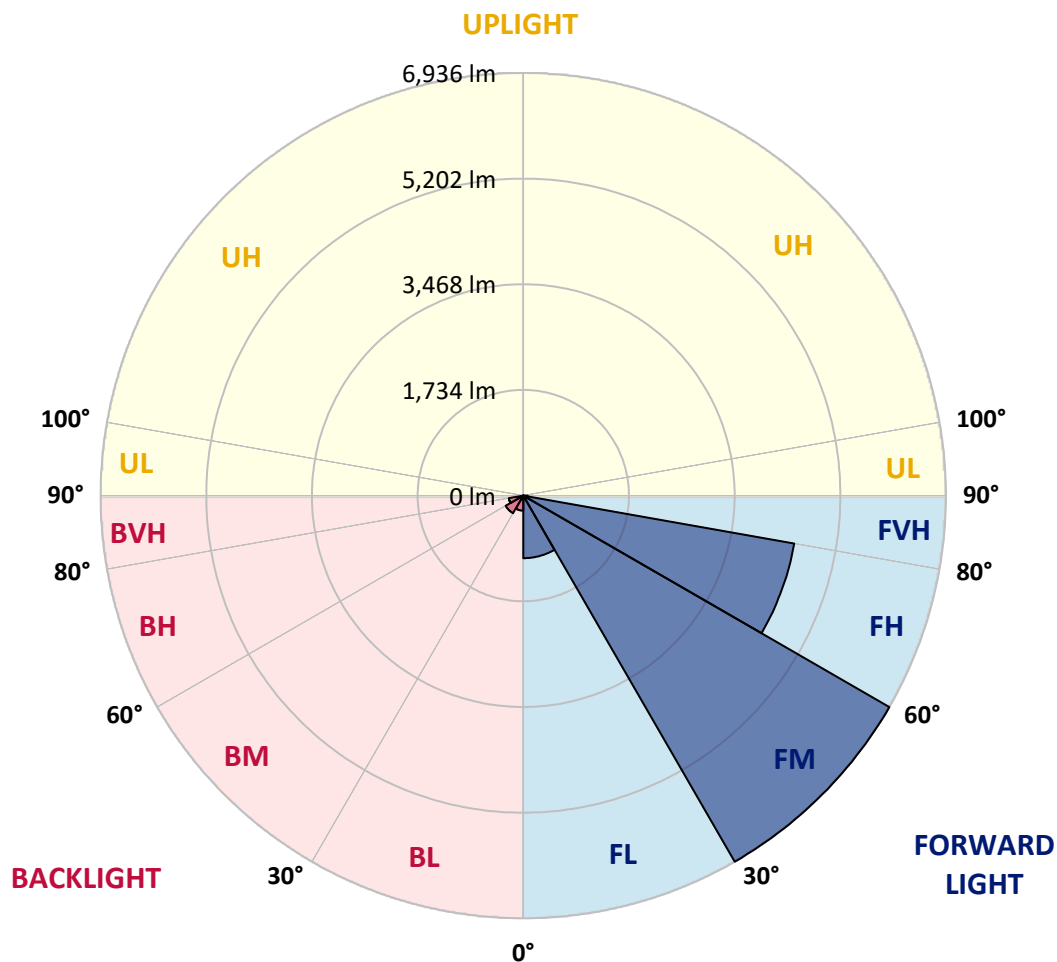
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1026.4	7.7			
FM	(30°-60°)	6936.1	51.9			
FH	(60°-80°)	4514.6	33.8			G2/5000
FVH	(80°-90°)	69.4	0.5			G1/100
BL	(0°-30°)	246.5	1.8	B1/500		
BM	(30°-60°)	334.2	2.5	B1/1000		
BH	(60°-80°)	241.1	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°	1462.4	1462.4	1462.4	1462.4	1462.4	1462.4	1462.4	1462.4	1462.4	1462.4	1462.4
2.5°	1747.1	1725.4	1732.3	1722.4	1699.7	1666.0	1636.4	1593.9	1551.3	1544.4	1497.0
5°	1977.5	1971.6	1963.7	1935.0	1919.2	1867.7	1806.4	1733.3	1645.3	1629.5	1543.4
7.5°	2134.7	2131.7	2135.7	2120.9	2107.0	2060.6	1995.3	1895.4	1759.0	1750.1	1606.7
10°	2186.1	2194.0	2208.9	2232.6	2254.3	2239.5	2190.1	2065.5	1906.3	1880.6	1678.9
12.5°	2156.5	2165.4	2201.0	2264.2	2334.4	2375.0	2355.2	2264.2	2062.5	2041.8	1760.0
15°	2080.3	2091.2	2141.6	2239.5	2365.1	2479.8	2529.2	2464.0	2244.5	2210.8	1857.9
17.5°	1967.6	1983.4	2055.6	2185.1	2357.2	2554.9	2694.3	2672.6	2438.3	2406.6	1964.6
20°	1882.6	1894.4	1955.7	2104.1	2323.6	2596.5	2851.6	2912.9	2677.5	2623.2	2090.2
22.5°	1938.9	1942.9	1963.7	2052.6	2263.2	2607.3	2990.0	3163.0	2931.6	2883.2	2220.7
25°	2214.8	2175.2	2154.5	2134.7	2250.4	2597.4	3115.5	3424.0	3184.8	3133.3	2350.3
27.5°	2649.8	2632.1	2527.2	2386.8	2360.1	2610.3	3198.6	3671.2	3423.1	3367.7	2476.8
30°	3123.5	3092.8	3028.5	2822.9	2616.2	2701.3	3258.9	3911.5	3704.8	3631.7	2592.5
32.5°	3558.5	3578.3	3482.4	3270.8	3031.5	2895.1	3337.0	4173.5	4028.2	3937.2	2727.0
35°	4065.7	4105.3	3958.0	3755.3	3475.5	3245.1	3489.3	4469.1	4438.5	4323.8	2934.6
37.5°	4580.9	4604.6	4514.6	4229.9	3977.7	3690.0	3776.0	4834.0	4943.7	4845.9	3182.8
40°	5013.9	5046.6	4980.3	4727.2	4458.3	4205.2	4192.3	5231.5	5544.9	5444.1	3552.6
42.5°	5345.2	5369.9	5371.9	5192.9	4950.7	4836.0	4723.3	5738.7	6298.3	6181.7	3981.7
45°	5763.4	5799.0	5778.3	5656.6	5475.7	5454.9	5396.6	6351.7	7200.1	7052.7	4538.4
47.5°	6410.1	6433.8	6382.4	6239.0	6055.1	6087.7	6053.1	7038.9	8119.6	7993.1	5114.8
50°	6859.0	6898.5	6971.7	7029.0	6895.5	6774.9	6672.1	7680.6	8992.7	8879.0	5704.1
52.5°	6854.0	6919.3	7150.6	7439.4	7731.0	7694.4	7398.8	8389.5	9826.2	9685.8	6257.8
55°	6392.3	6518.8	6859.0	7371.1	8178.9	8581.4	8446.9	9210.2	10546.0	10451.1	6899.5
57.5°	5439.1	5516.2	5988.9	6704.7	7928.8	8998.6	9661.1	10322.5	11409.2	11364.7	7896.2
60°	3658.4	3693.0	4301.1	5186.0	6750.2	8582.3	10550.9	11668.2	12472.1	12450.3	9059.9
62.5°	2096.1	2111.0	2552.0	3298.5	4803.3	7273.2	10626.1	13328.3	13746.6	13758.4	10406.6
65°	1128.2	1136.1	1492.0	1936.0	2922.7	5184.0	9555.3	14238.0	14776.9	14799.6	11241.1
66°	973.9	936.3	1187.5	1650.2	2325.5	4126.1	8878.0	14205.4	14974.6	14949.9	11211.4
67.5°	740.6	774.2	948.2	1268.6	1723.4	2933.6	7329.6	13573.6	14824.3	14747.2	10755.6
70°	530.0	543.8	675.3	904.7	1173.6	1609.7	4683.7	11273.7	13473.7	13369.9	9370.4
72.5°	342.1	356.9	478.6	654.6	848.3	879.0	2622.2	8145.3	10387.8	10373.0	7056.7
75°	244.2	258.1	316.4	468.7	637.7	543.8	1262.6	5489.5	6603.9	6559.4	4365.3
77.5°	177.0	183.9	211.6	306.5	455.8	389.6	585.3	2931.6	3287.6	3442.8	1929.1
80°	101.8	107.8	147.3	186.9	308.5	266.0	279.8	1176.6	1213.2	1154.9	603.1
82.5°	50.4	57.3	88.0	127.5	192.8	179.0	128.5	354.0	373.7	363.9	152.3
85°	11.9	14.8	49.4	84.0	93.9	80.1	62.3	103.8	128.5	125.6	58.3
87.5°	1.0	2.0	17.8	14.8	15.8	26.7	21.8	26.7	41.5	38.6	20.8
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°	1462.4	1462.4	1462.4	1462.4	1462.4	1462.4	1462.4	1462.4	1462.4	1462.4	1462.4
2.5°	1475.2	1456.4	1402.0	1348.7	1304.2	1257.7	1215.2	1190.5	1180.6	1169.7	1174.6
5°	1496.0	1450.5	1340.7	1245.8	1152.9	1073.8	1010.5	970.0	950.2	947.2	942.3
7.5°	1523.7	1445.6	1275.5	1127.2	1005.6	917.6	845.4	787.0	769.2	753.4	740.6
10°	1557.3	1436.7	1194.4	1002.6	873.1	762.3	667.4	598.2	562.6	552.7	559.6
12.5°	1592.9	1419.8	1109.4	887.9	738.6	597.2	509.2	474.6	464.7	460.8	461.7
15°	1628.5	1399.1	1020.4	777.2	588.3	476.6	436.0	427.1	423.2	421.2	419.2
17.5°	1661.1	1365.5	920.5	669.4	476.6	407.4	392.5	384.6	376.7	373.7	368.8
20°	1699.7	1326.9	830.5	548.8	403.4	368.8	351.0	336.2	324.3	316.4	315.4
22.5°	1736.2	1277.5	736.6	454.8	367.8	331.2	302.6	286.7	272.9	263.0	266.0
25°	1756.0	1217.2	652.6	396.5	335.2	293.7	262.0	242.2	227.4	222.5	221.5
27.5°	1756.0	1143.0	570.5	362.9	305.5	260.0	227.4	208.6	198.7	191.8	192.8
30°	1742.2	1060.9	494.4	337.2	279.8	230.4	199.7	182.9	175.0	170.1	169.1
32.5°	1731.3	982.8	429.1	312.4	253.1	204.7	178.0	165.1	157.2	152.3	152.3
35°	1748.1	915.6	378.7	287.7	228.4	184.9	161.2	149.3	141.4	137.4	136.4
37.5°	1792.6	854.3	340.1	261.0	205.7	168.1	149.3	135.5	127.5	122.6	120.6
40°	1902.4	819.7	311.5	236.3	183.9	154.2	135.5	122.6	112.7	107.8	106.8
42.5°	2078.4	820.7	283.8	213.6	167.1	142.4	123.6	108.8	97.9	92.9	92.0
45°	2343.3	858.2	262.0	191.8	152.3	129.5	110.7	94.9	85.0	80.1	80.1
47.5°	2660.7	931.4	243.2	173.0	138.4	117.7	97.9	82.1	72.2	68.2	68.2
50°	3004.8	1026.3	224.4	153.3	126.6	104.8	84.0	71.2	63.3	60.3	60.3
52.5°	3355.8	1141.0	205.7	137.4	113.7	91.0	72.2	63.3	56.4	54.4	53.4
55°	3816.6	1287.4	185.9	120.6	99.9	78.1	64.3	55.4	47.5	44.5	43.5
57.5°	4525.5	1507.8	164.1	105.8	82.1	65.3	55.4	46.5	37.6	32.6	31.6
60°	5380.8	1776.8	141.4	92.9	66.2	53.4	44.5	35.6	27.7	21.8	20.8
62.5°	6181.7	1947.8	119.6	78.1	52.4	40.5	31.6	26.7	19.8	13.8	12.9
65°	6535.6	1890.5	98.9	63.3	41.5	28.7	20.8	18.8	11.9	5.9	4.9
66°	6418.0	1805.5	91.0	57.3	37.6	24.7	17.8	15.8	8.9	3.0	3.0
67.5°	6070.9	1604.7	79.1	49.4	32.6	19.8	13.8	11.9	4.9	1.0	0.0
70°	5201.8	1298.2	62.3	36.6	23.7	13.8	7.9	5.9	3.0	0.0	0.0
72.5°	3995.5	967.0	49.4	27.7	16.8	7.9	4.0	2.0	3.0	0.0	0.0
75°	2448.1	552.7	38.6	20.8	10.9	4.9	3.0	0.0	3.0	1.0	0.0
77.5°	1086.6	248.2	25.7	13.8	7.9	4.0	2.0	0.0	2.0	1.0	0.0
80°	274.9	81.1	14.8	9.9	5.9	3.0	1.0	0.0	2.0	2.0	1.0
82.5°	75.1	29.7	10.9	7.9	4.9	3.0	1.0	0.0	2.0	2.0	2.0
85°	29.7	13.8	9.9	7.9	5.9	3.0	1.0	0.0	2.0	2.0	2.0
87.5°	13.8	9.9	9.9	8.9	6.9	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)