

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: P451775

Luminaire Tested: **GALN-SA2C-830-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451775
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2C-830-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8995 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 108
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

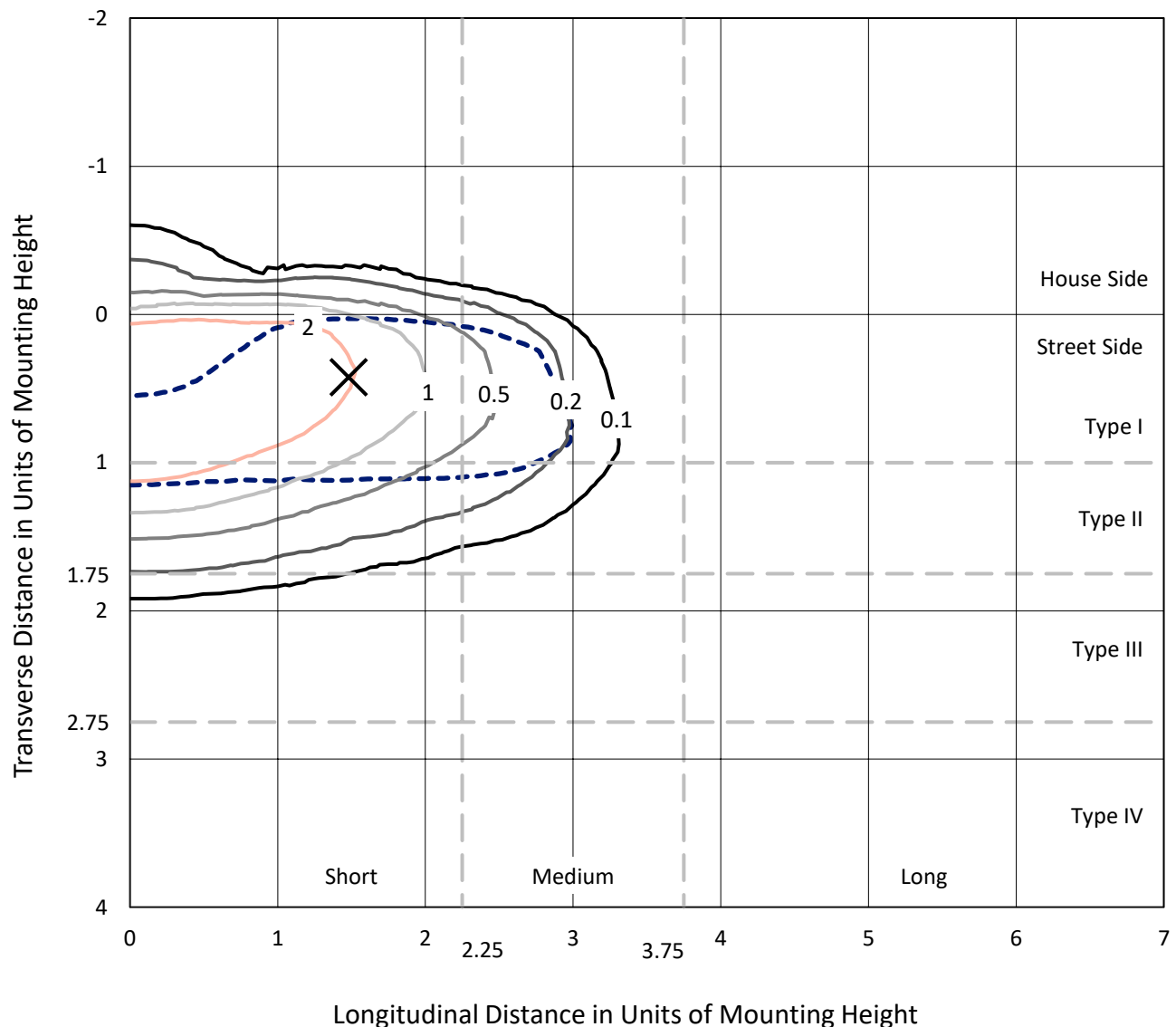


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Iso-Footcandle Lines of Horizontal Illumination

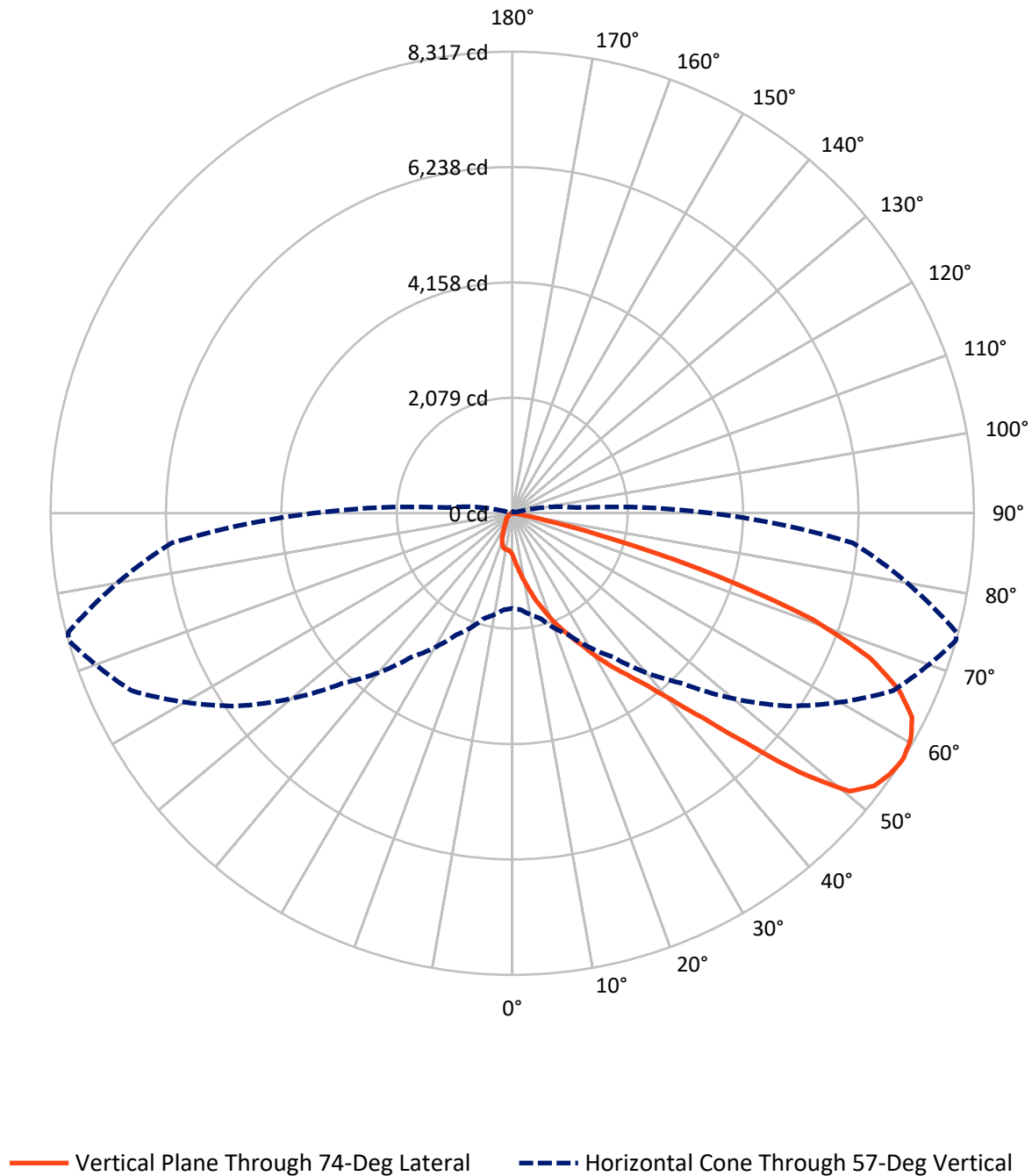
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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	518.8	0.0	518.8
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	8476.2	0.0	8476.2
	% Fixture	94.2	0.0	94.2
Total	Lumens	8995.0	0.0	8995.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.9	1.0
10°-20°	358.4	4.0
20°-30°	766.9	8.5
30°-40°	1409.5	15.7
40°-50°	2160.8	24.0
50°-60°	2285.9	25.4
60°-70°	1492.7	16.6
70°-80°	407.9	4.5
80°-90°	22.0	0.2
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°	8995.0	100.0
0°-180°	8995.0	100.0

Coefficient of Utilization



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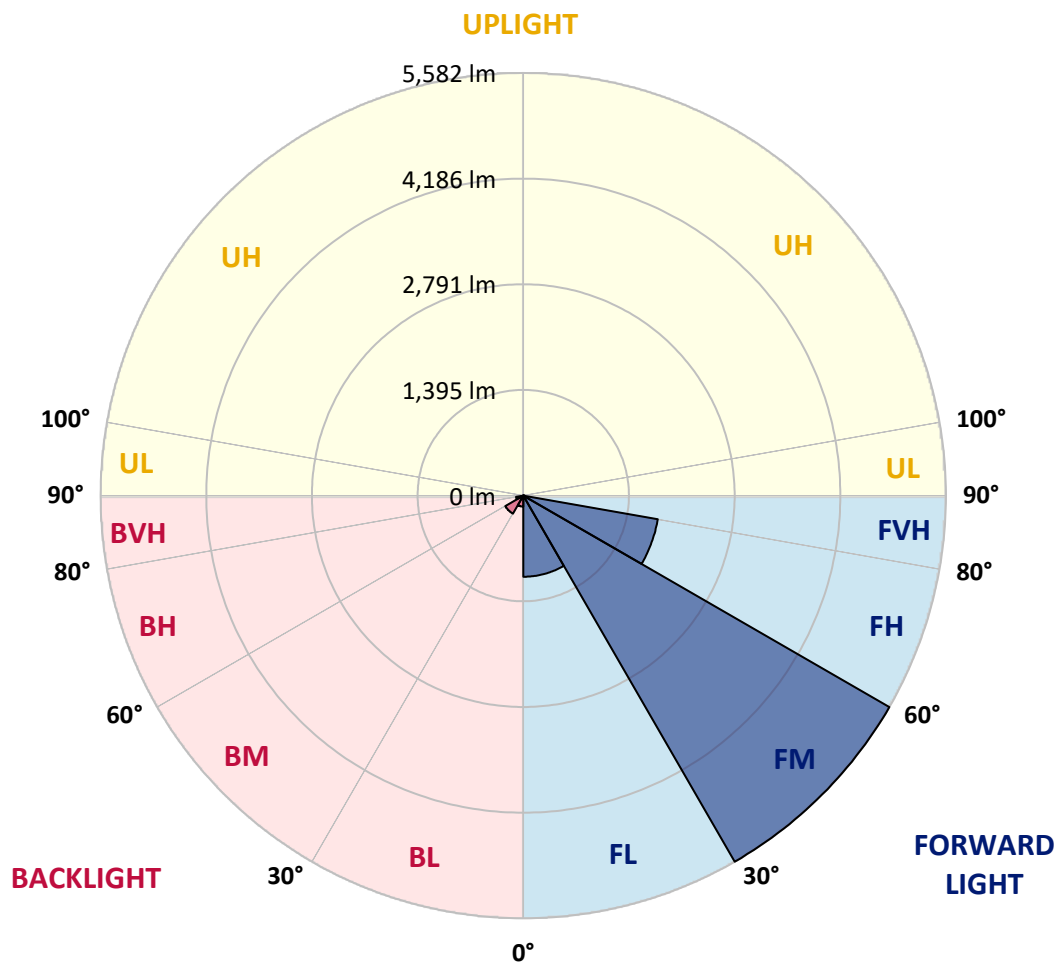
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1071.3	11.9			
FM	(30°-60°)	5581.6	62.1			
FH	(60°-80°)	1803.2	20.0			G2/5000
FVH	(80°-90°)	20.1	0.2			G1/100
BL	(0°-30°)	144.9	1.6	B1/500		
BM	(30°-60°)	274.7	3.1	B1/1000		
BH	(60°-80°)	97.4	1.1	B0/110		G0/110
BVH	(80°-90°)	1.8	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°	74°	75°	85°
0°	753.3	753.3	753.3	753.3	753.3	753.3	753.3	753.3	753.3	753.3	753.3
2.5°	1102.3	1092.4	1072.5	1065.7	1036.5	991.2	951.4	898.0	855.8	851.4	800.5
5°	1476.2	1453.9	1444.5	1399.8	1329.6	1263.8	1150.8	1065.1	966.3	958.9	856.4
7.5°	1836.4	1805.4	1796.0	1753.8	1671.8	1568.1	1421.6	1265.7	1109.2	1094.9	931.6
10°	2097.2	2101.6	2084.8	2056.9	1990.4	1884.9	1704.1	1491.1	1268.2	1250.2	1016.0
12.5°	2284.2	2283.6	2286.7	2286.0	2250.6	2170.5	1980.5	1735.2	1443.3	1407.9	1112.9
15°	2405.9	2407.8	2417.1	2449.4	2453.1	2403.4	2245.1	1968.7	1646.4	1602.3	1217.9
17.5°	2528.9	2541.9	2556.8	2587.2	2614.6	2594.7	2482.9	2212.1	1830.2	1797.3	1330.3
20°	2731.9	2750.0	2741.3	2759.9	2774.2	2776.0	2689.7	2437.0	2053.2	1997.9	1458.8
22.5°	3056.8	3056.1	3033.8	3000.2	2972.3	2971.0	2892.8	2668.0	2255.6	2202.2	1588.0
25°	3467.3	3469.1	3425.6	3330.0	3260.5	3175.4	3085.3	2870.4	2472.4	2406.5	1724.0
27.5°	3938.0	3926.2	3860.4	3728.7	3590.8	3445.5	3315.7	3105.8	2702.1	2647.5	1879.9
30°	4360.9	4356.6	4279.6	4118.7	3937.4	3791.4	3603.3	3400.8	2999.6	2932.5	2054.4
32.5°	4754.7	4760.9	4654.1	4487.6	4312.5	4144.2	3945.5	3682.8	3291.5	3196.5	2244.4
35°	5062.1	5068.3	4957.7	4819.3	4639.2	4499.4	4310.0	3983.3	3579.7	3499.6	2463.0
37.5°	5226.0	5234.1	5170.1	5065.8	4953.4	4883.2	4706.8	4370.2	3929.9	3881.5	2721.4
40°	5257.1	5266.4	5238.5	5210.5	5204.3	5254.6	5203.1	4826.1	4415.6	4339.8	3106.4
42.5°	5163.9	5176.4	5188.8	5250.9	5377.6	5562.0	5741.5	5444.6	5041.0	4939.1	3577.2
45°	4919.2	4918.0	4967.1	5127.9	5411.7	5805.5	6304.2	6219.1	5893.0	5771.9	4242.3
47.5°	4500.7	4494.5	4600.7	4829.8	5272.0	5850.2	6763.1	7159.3	6980.5	6868.7	4957.1
50°	3862.9	3893.3	4060.3	4380.2	4924.8	5714.8	6904.7	7776.0	7872.9	7754.3	5534.7
52.5°	3115.7	3114.5	3376.6	3810.7	4410.6	5416.7	6806.0	7887.8	8162.9	8072.3	5819.1
55°	2305.9	2322.1	2594.7	3032.5	3743.0	4872.7	6483.6	7772.9	8273.5	8209.5	6006.7
57°	1715.3	1743.9	1962.5	2425.8	3161.7	4334.2	6054.5	7567.4	8316.9	8282.2	6162.6
57.5°	1601.0	1602.3	1815.3	2236.4	2991.5	4127.4	5931.5	7481.6	8315.7	8296.5	6188.0
60°	985.6	1016.6	1163.8	1511.6	2189.8	3221.3	5107.4	6989.2	8251.1	8279.1	6296.7
62.5°	590.0	603.0	698.7	911.1	1411.6	2351.3	4179.6	6358.8	8082.8	8167.9	6289.3
65°	379.5	382.6	426.0	551.5	882.5	1589.2	3220.7	5526.0	7647.5	7804.0	6043.3
67.5°	293.1	298.1	315.5	362.1	511.7	989.9	2278.0	4637.3	6943.2	7145.0	5447.1
70°	260.2	262.7	268.9	283.8	338.5	558.9	1417.2	3622.5	5757.6	5814.8	4262.8
72.5°	212.4	219.2	238.5	243.4	268.3	349.0	788.7	2431.4	3868.4	3882.7	2384.8
75°	164.6	165.8	194.4	208.7	226.1	240.3	352.1	1225.9	1858.1	1758.8	919.1
77.5°	123.0	128.6	141.6	159.6	184.4	172.0	157.7	462.1	576.9	566.4	267.0
80°	78.9	82.0	98.7	119.9	143.5	112.4	88.8	135.4	126.7	130.4	64.0
82.5°	39.7	40.4	63.3	97.5	91.3	56.5	55.9	55.3	47.2	46.6	29.8
85°	4.3	9.3	41.0	55.9	41.0	18.6	26.1	25.5	24.8	25.5	17.4
87.5°	0.6	0.6	6.8	8.1	5.6	6.2	7.5	8.1	9.9	9.3	7.5
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°	753.3	753.3	753.3	753.3	753.3	753.3	753.3	753.3	753.3	753.3	753.3
2.5°	775.7	750.8	704.9	660.8	627.9	606.8	579.4	569.5	555.2	553.3	546.5
5°	809.2	762.0	681.9	618.6	567.6	529.1	495.6	467.6	445.3	440.3	442.8
7.5°	857.0	786.9	675.1	588.7	517.9	452.1	398.7	365.8	342.2	333.5	334.7
10°	911.1	819.8	673.8	557.1	449.0	368.3	309.9	280.7	267.0	262.1	256.5
12.5°	975.0	857.7	670.7	508.0	373.2	293.8	252.1	234.8	221.7	218.0	218.0
15°	1047.1	898.0	655.8	447.1	303.1	242.8	214.9	201.2	196.9	193.1	193.1
17.5°	1122.2	937.8	624.8	372.0	251.5	208.0	190.7	182.6	176.4	172.0	172.0
20°	1207.9	976.9	575.1	305.6	212.4	185.7	172.0	162.7	157.7	154.0	152.8
22.5°	1289.3	1008.6	511.7	250.9	185.1	167.1	154.6	144.7	139.7	137.9	137.9
25°	1373.7	1027.8	435.3	207.4	168.9	151.5	137.9	129.8	125.4	124.2	123.6
27.5°	1455.7	1039.0	368.3	181.3	154.0	137.2	124.2	118.0	113.7	112.4	113.0
30°	1555.1	1040.9	303.1	162.7	141.0	123.6	111.8	106.2	103.7	102.5	101.9
32.5°	1655.7	1038.4	254.6	151.5	128.6	111.8	101.9	97.5	95.6	93.8	93.8
35°	1768.7	1025.3	216.7	140.4	116.8	101.9	93.2	89.4	86.9	85.1	84.5
37.5°	1909.1	1018.5	195.0	127.9	106.2	92.5	84.5	80.7	78.9	76.4	75.8
40°	2130.2	1048.9	188.2	116.8	95.6	83.8	76.4	72.0	69.6	67.1	66.5
42.5°	2405.9	1102.3	177.0	105.6	86.3	75.8	68.3	63.3	59.0	55.9	54.7
45°	2763.0	1172.5	159.6	93.8	78.3	67.1	60.2	54.0	48.4	46.0	45.3
47.5°	3137.5	1240.2	144.1	84.5	69.6	59.6	52.2	45.3	40.4	38.5	37.9
50°	3367.3	1253.9	134.1	73.9	60.9	51.5	44.1	37.9	34.8	32.9	32.9
52.5°	3472.2	1232.1	120.5	64.6	52.8	45.3	37.9	32.9	31.1	29.8	29.2
55°	3545.5	1198.6	102.5	55.9	45.3	38.5	33.5	29.8	27.3	26.1	25.5
57°	3588.4	1153.3	88.8	49.1	39.1	33.5	29.8	26.7	24.2	21.7	21.7
57.5°	3590.2	1135.9	85.1	48.4	37.3	32.3	29.2	26.1	23.0	20.5	19.9
60°	3535.0	1016.6	68.3	41.0	29.8	27.3	24.2	20.5	16.1	13.7	13.0
62.5°	3357.3	865.1	56.5	34.8	24.2	21.1	17.4	15.5	11.2	8.1	8.1
65°	3088.4	701.8	48.4	27.9	19.9	15.5	11.8	11.2	6.8	3.7	3.1
67.5°	2699.7	546.5	41.0	23.0	16.8	11.2	8.1	7.5	3.7	1.2	0.0
70°	2056.9	372.6	34.2	18.6	12.4	8.1	5.6	4.3	2.5	0.6	0.0
72.5°	1185.6	204.9	28.6	14.3	9.3	6.2	4.3	2.5	2.5	0.0	0.0
75°	423.5	88.2	21.7	10.6	7.5	5.0	3.1	1.2	1.9	0.6	0.0
77.5°	134.8	47.2	14.3	8.1	6.2	3.7	2.5	1.2	1.2	0.6	0.0
80°	39.7	24.8	8.7	6.8	4.3	3.1	1.9	0.6	1.2	0.6	0.0
82.5°	21.7	12.4	6.8	5.0	4.3	2.5	1.9	0.6	0.6	0.6	0.0
85°	11.2	7.5	5.6	5.0	4.3	2.5	1.9	0.6	0.0	0.6	0.6
87.5°	6.2	5.6	5.6	5.0	4.3	3.1	1.9	0.6	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)