

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: P451854

Luminaire Tested: **GALN-SA2D-730-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451854
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-730-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13868 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

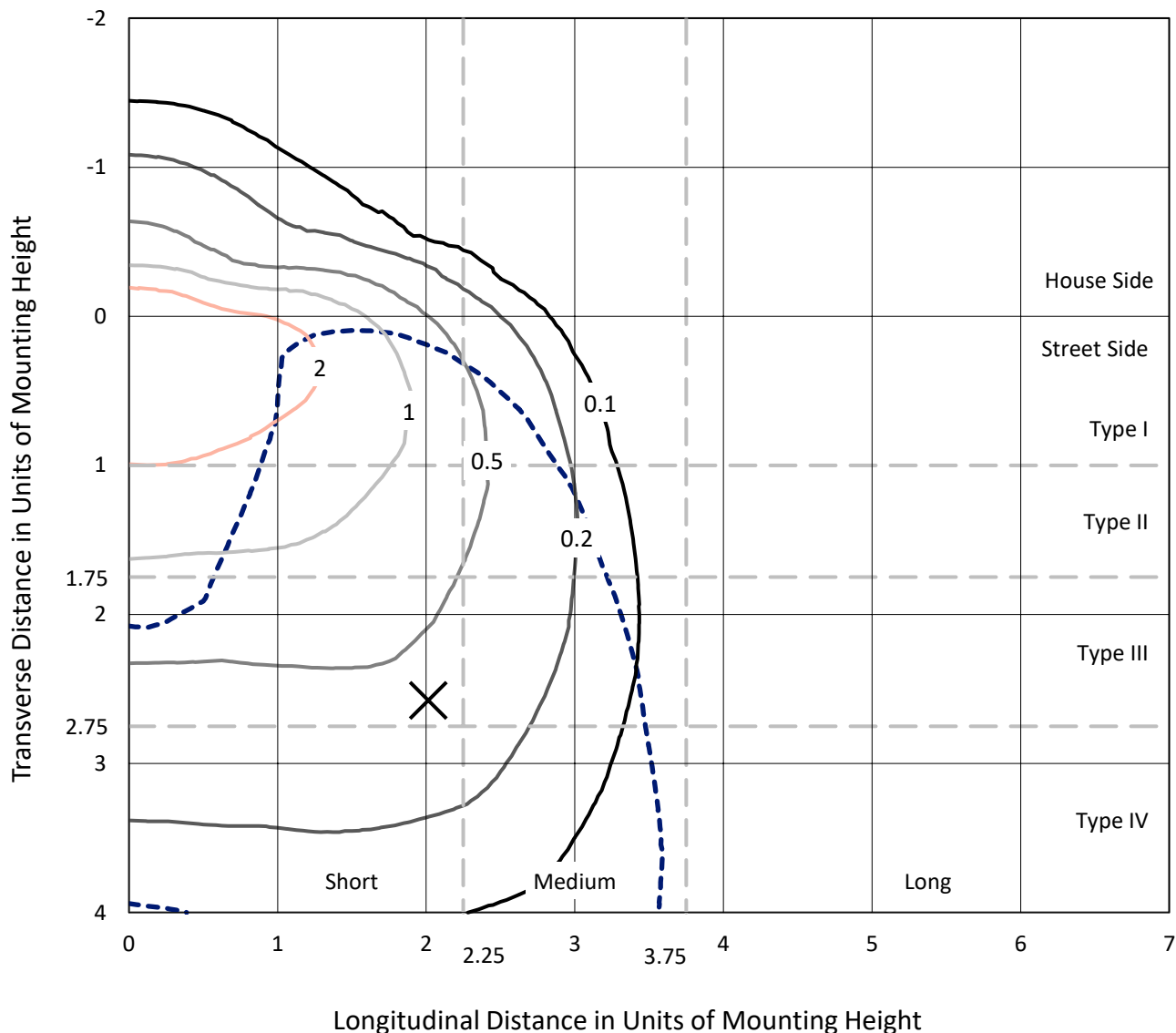
Input Watts (W): 125
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

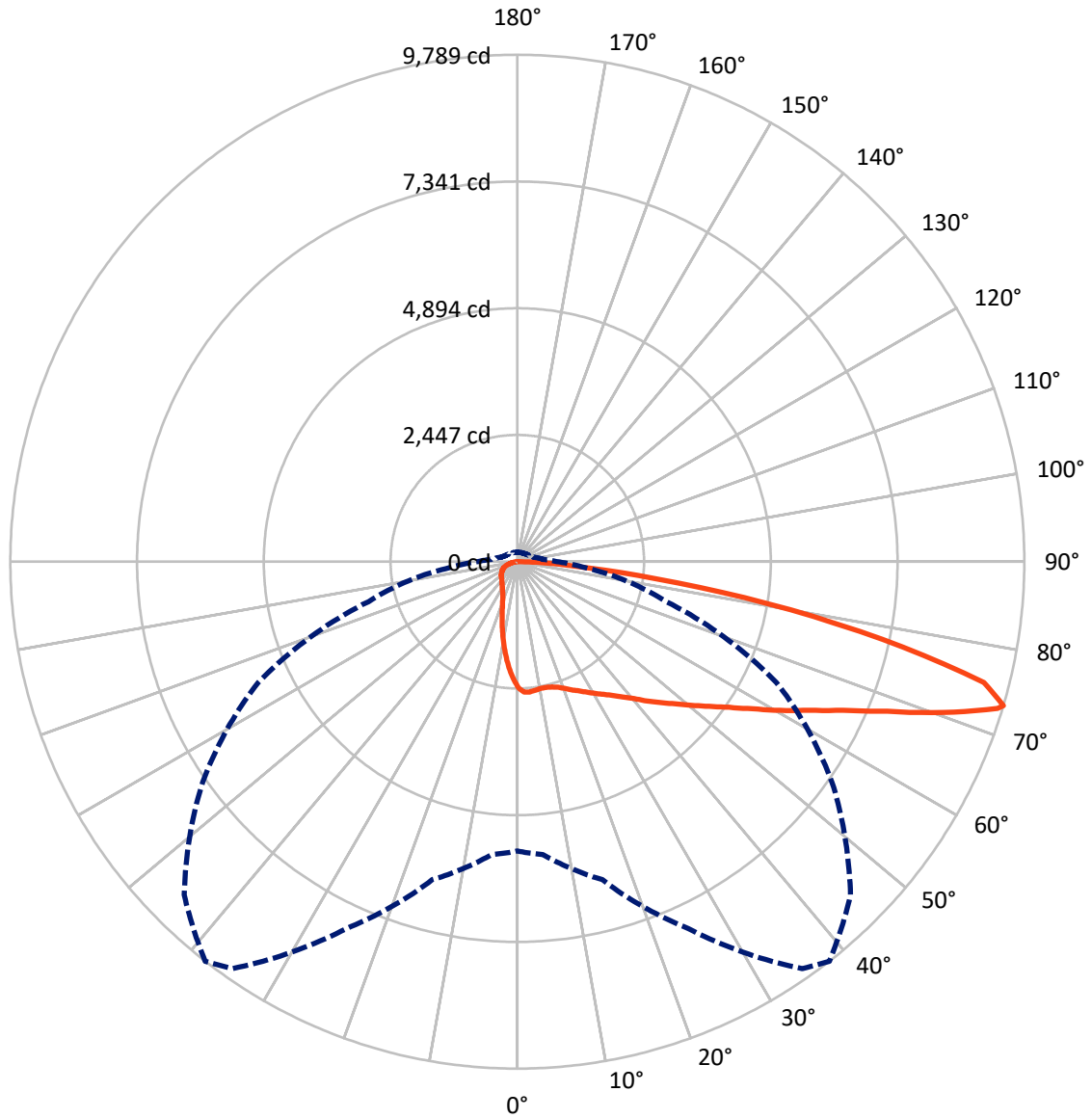
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1864.3	0.0	1864.3
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	12003.7	0.0	12003.7
	% Fixture	86.6	0.0	86.6
Total	Lumens	13868.0	0.0	13868.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.7	1.5
10°-20°	545.4	3.9
20°-30°	849.2	6.1
30°-40°	1245.6	9.0
40°-50°	1847.7	13.3
50°-60°	2617.8	18.9
60°-70°	3320.8	23.9
70°-80°	2764.3	19.9
80°-90°	464.4	3.3
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°	13868.0	100.0
0°-180°	13868.0	100.0

Coefficient of Utilization



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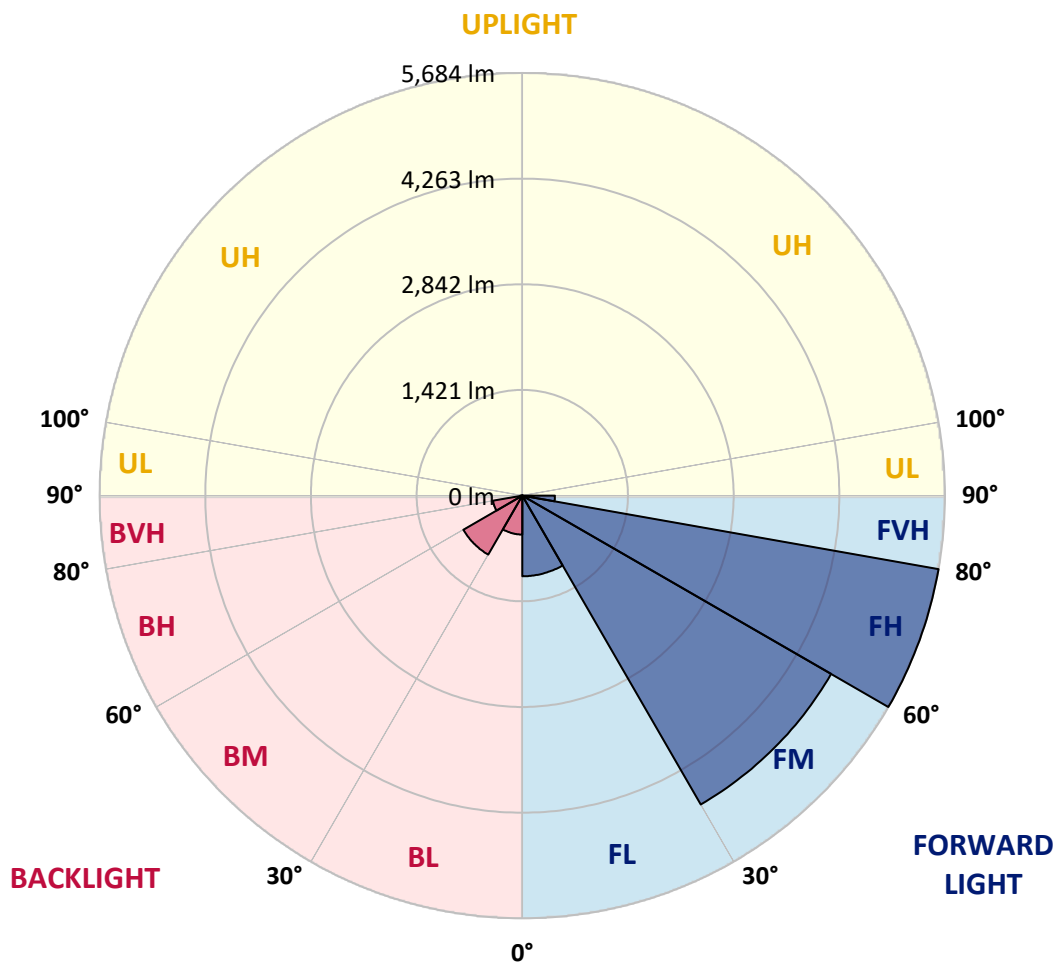
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1084.1	7.8			
FM	(30°-60°)	4795.9	34.6			
FH	(60°-80°)	5684.4	41.0			G3/7500
FVH	(80°-90°)	439.3	3.2			G3/500
BL	(0°-30°)	523.1	3.8	B2/1000		
BM	(30°-60°)	915.2	6.6	B1/1000		
BH	(60°-80°)	400.7	2.9	B1/500		G1/500
BVH	(80°-90°)	25.2	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	2436.4	2436.4	2436.4	2436.4	2436.4	2436.4	2436.4	2436.4	2436.4	2436.4	2436.4
2.5°	2534.3	2546.8	2540.5	2531.9	2526.4	2521.0	2513.1	2490.4	2472.4	2452.8	2422.3
5°	2553.1	2560.9	2555.4	2544.4	2531.9	2526.4	2511.6	2481.8	2452.8	2419.9	2374.5
7.5°	2542.1	2545.2	2539.0	2525.7	2514.7	2504.5	2487.3	2454.4	2419.1	2379.2	2319.7
10°	2502.9	2514.7	2514.7	2503.7	2492.8	2487.3	2470.0	2438.7	2406.6	2361.2	2290.7
12.5°	2470.8	2483.4	2493.5	2490.4	2489.6	2489.6	2476.3	2452.8	2415.2	2372.2	2288.4
15°	2448.9	2463.8	2485.7	2498.2	2506.1	2508.4	2502.9	2482.6	2444.2	2394.1	2297.8
17.5°	2444.2	2462.2	2502.2	2529.6	2549.9	2549.1	2547.6	2519.4	2477.1	2425.4	2309.5
20°	2465.3	2488.8	2544.4	2587.5	2617.3	2611.8	2603.2	2566.4	2517.0	2459.1	2320.5
22.5°	2528.8	2553.1	2614.1	2661.1	2690.1	2690.1	2664.3	2615.7	2563.2	2498.2	2335.3
25°	2619.6	2646.3	2711.3	2759.0	2772.3	2762.2	2736.3	2677.6	2617.3	2554.6	2366.7
27.5°	2730.8	2762.9	2823.2	2863.2	2859.3	2851.4	2824.8	2749.6	2689.3	2632.2	2419.9
30°	2869.5	2892.9	2955.6	2965.0	2950.9	2949.3	2911.7	2836.6	2780.2	2736.3	2495.9
32.5°	3000.2	3021.4	3071.5	3075.4	3050.4	3053.5	3018.3	2949.3	2917.2	2901.6	2623.5
35°	3138.9	3149.8	3192.9	3188.2	3171.7	3169.4	3155.3	3089.5	3099.7	3127.9	2804.5
37.5°	3254.8	3276.7	3301.0	3304.9	3304.1	3311.9	3321.3	3290.0	3348.7	3437.2	3041.7
40°	3361.3	3380.1	3416.1	3428.6	3459.2	3474.8	3506.9	3507.7	3643.2	3788.9	3333.9
42.5°	3433.3	3465.4	3532.8	3555.5	3629.9	3676.9	3724.7	3775.6	3972.1	4159.3	3678.4
45°	3496.0	3538.3	3650.3	3720.7	3821.8	3878.9	3980.0	4086.5	4369.2	4614.3	4028.5
47.5°	3590.7	3628.3	3756.8	3881.3	4034.0	4099.8	4250.9	4409.9	4779.6	5048.2	4363.7
50°	3722.3	3745.0	3875.8	4078.6	4273.6	4358.2	4557.9	4787.4	5218.1	5476.6	4658.2
52.5°	3890.7	3900.1	4004.2	4274.4	4531.3	4636.2	4900.9	5168.8	5601.9	5848.5	4891.5
55°	4089.6	4073.9	4155.4	4482.0	4825.8	4962.8	5247.1	5554.9	6033.4	6149.3	5061.5
57.5°	4286.2	4261.9	4326.9	4734.1	5189.1	5354.4	5685.7	5952.7	6418.7	6430.4	5180.5
60°	4494.5	4476.5	4554.0	5030.2	5634.7	5830.5	6136.7	6365.4	6791.5	6626.2	5199.3
62.5°	4708.3	4679.3	4789.7	5363.0	6136.7	6314.5	6611.3	6804.0	7157.2	6699.0	5018.4
65°	4915.8	4902.5	5073.2	5758.5	6708.4	6910.5	7198.7	7329.5	7450.1	6589.4	4569.7
67.5°	5136.7	5163.3	5435.8	6286.3	7454.0	7707.7	8018.6	7895.7	7533.9	6070.2	3848.4
70°	5473.4	5490.6	5912.0	6977.8	8414.9	8721.1	8871.5	8097.0	7129.8	5084.2	2892.9
72.5°	5618.3	5694.3	6337.2	7703.8	9506.6	9693.8	9158.1	7648.2	5939.4	3453.7	1520.1
73°	5586.2	5677.0	6356.8	7814.2	9592.0	9788.6	9097.0	7417.2	5521.2	2974.4	1303.2
75°	5186.0	5298.0	6102.3	7721.8	9426.0	9308.5	8115.0	6321.6	3730.9	1352.5	593.6
77.5°	4091.9	4124.1	4835.2	6235.4	7422.7	7205.0	6073.3	3951.0	1524.0	502.8	336.8
80°	2052.6	2170.9	2725.4	3571.9	4963.6	4892.3	3833.5	1868.6	635.1	295.2	223.2
82.5°	987.5	1071.3	1327.4	1741.7	2742.6	2677.6	1898.4	1021.2	403.3	172.3	131.6
85°	635.9	698.6	845.0	830.9	1127.7	1076.8	852.8	773.0	238.9	90.1	91.6
87.5°	419.8	459.7	551.3	440.9	410.4	371.2	376.7	435.4	47.0	34.5	12.5
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°	2436.4	2436.4	2436.4	2436.4	2436.4	2436.4	2436.4	2436.4	2436.4	2436.4	2436.4
2.5°	2409.7	2399.6	2365.9	2333.0	2301.7	2271.9	2252.3	2226.5	2209.3	2214.0	2221.0
5°	2349.4	2326.7	2267.2	2209.3	2154.4	2089.4	2037.0	1994.7	1962.6	1950.8	1948.5
7.5°	2286.0	2247.6	2162.3	2062.8	1969.6	1889.0	1795.8	1749.6	1695.5	1676.7	1670.5
10°	2247.6	2195.9	2076.1	1937.5	1797.3	1663.4	1562.4	1480.1	1405.8	1391.7	1384.6
12.5°	2236.7	2168.5	2007.2	1828.6	1642.3	1477.8	1328.2	1220.1	1148.1	1131.6	1107.4
15°	2230.4	2145.8	1943.0	1719.0	1482.5	1282.0	1124.6	998.5	932.7	888.9	889.7
17.5°	2224.9	2120.0	1870.9	1599.2	1344.7	1113.6	939.8	826.2	765.9	742.4	740.1
20°	2217.1	2089.4	1787.9	1473.1	1187.3	960.1	802.7	718.1	677.4	657.8	657.1
22.5°	2214.0	2059.7	1706.5	1344.7	1047.9	841.9	711.9	652.4	626.5	613.2	613.2
25°	2221.8	2038.5	1621.1	1222.5	924.1	740.9	649.2	608.5	593.6	586.6	584.2
27.5°	2246.1	2029.1	1536.5	1100.3	810.6	671.9	606.9	578.7	567.8	562.3	563.1
30°	2292.3	2028.4	1453.5	979.7	726.0	619.5	573.3	553.7	545.1	541.9	541.2
32.5°	2366.7	2045.6	1372.1	880.3	654.7	575.6	541.9	527.8	523.9	521.6	520.8
35°	2492.8	2094.1	1291.4	789.4	599.9	536.5	512.2	505.1	499.6	502.0	502.8
37.5°	2662.7	2177.9	1214.7	718.1	558.4	507.5	487.1	480.9	477.7	480.1	482.4
40°	2890.6	2298.5	1150.4	661.0	528.6	483.2	465.2	459.7	456.6	460.5	461.3
42.5°	3142.0	2437.9	1097.2	616.3	504.3	462.8	445.6	439.3	437.0	439.3	440.1
45°	3400.4	2600.1	1069.8	584.2	484.0	448.0	429.9	422.9	417.4	415.9	418.2
47.5°	3655.0	2741.0	1069.0	564.6	467.5	434.6	415.1	407.2	400.2	396.3	395.5
50°	3862.5	2853.0	1087.8	556.0	453.4	419.8	400.2	392.4	383.0	375.1	376.7
52.5°	4019.1	2925.8	1096.4	552.1	445.6	404.1	384.5	377.5	366.5	356.3	356.3
55°	4120.1	2943.1	1075.3	548.2	439.3	387.7	366.5	360.2	349.3	339.1	339.1
57.5°	4154.6	2889.8	999.3	538.8	433.1	373.6	348.5	343.0	334.4	324.2	322.7
60°	4074.7	2709.7	866.2	510.6	420.6	358.7	328.9	326.6	323.4	314.8	314.0
62.5°	3766.9	2327.5	721.3	473.8	399.4	343.0	310.9	314.8	317.2	312.5	311.7
65°	3254.8	1889.7	616.3	422.9	371.2	321.1	291.3	301.5	307.8	307.8	306.2
67.5°	2640.0	1451.2	519.2	379.0	336.0	291.3	269.4	277.2	281.9	280.4	284.3
70°	1876.4	982.9	422.9	328.9	291.3	257.7	241.2	241.2	238.1	236.5	236.5
72.5°	910.0	561.5	343.0	274.9	248.3	220.1	206.8	201.3	195.0	194.2	190.3
73°	760.4	503.6	327.4	264.7	238.1	214.6	199.7	191.1	187.2	184.0	183.3
75°	462.8	382.2	273.3	223.2	202.8	184.8	171.5	163.7	159.8	157.4	156.6
77.5°	304.6	285.1	212.2	170.7	155.1	144.1	138.6	130.8	128.4	125.3	125.3
80°	227.1	217.7	151.9	120.6	111.2	101.8	100.2	98.7	92.4	88.5	86.9
82.5°	146.4	155.1	103.4	80.7	70.5	62.7	63.4	65.8	59.5	54.0	52.5
85°	104.2	112.0	62.7	36.8	29.8	25.8	29.0	25.8	26.6	21.1	17.2
87.5°	17.2	29.8	11.0	4.7	2.3	1.6	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)