

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: P452343

Luminaire Tested: **GALN-SA3B-740-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452343
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3B-740-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16956 lumens
Efficiency: N/A
Efficacy: 140.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

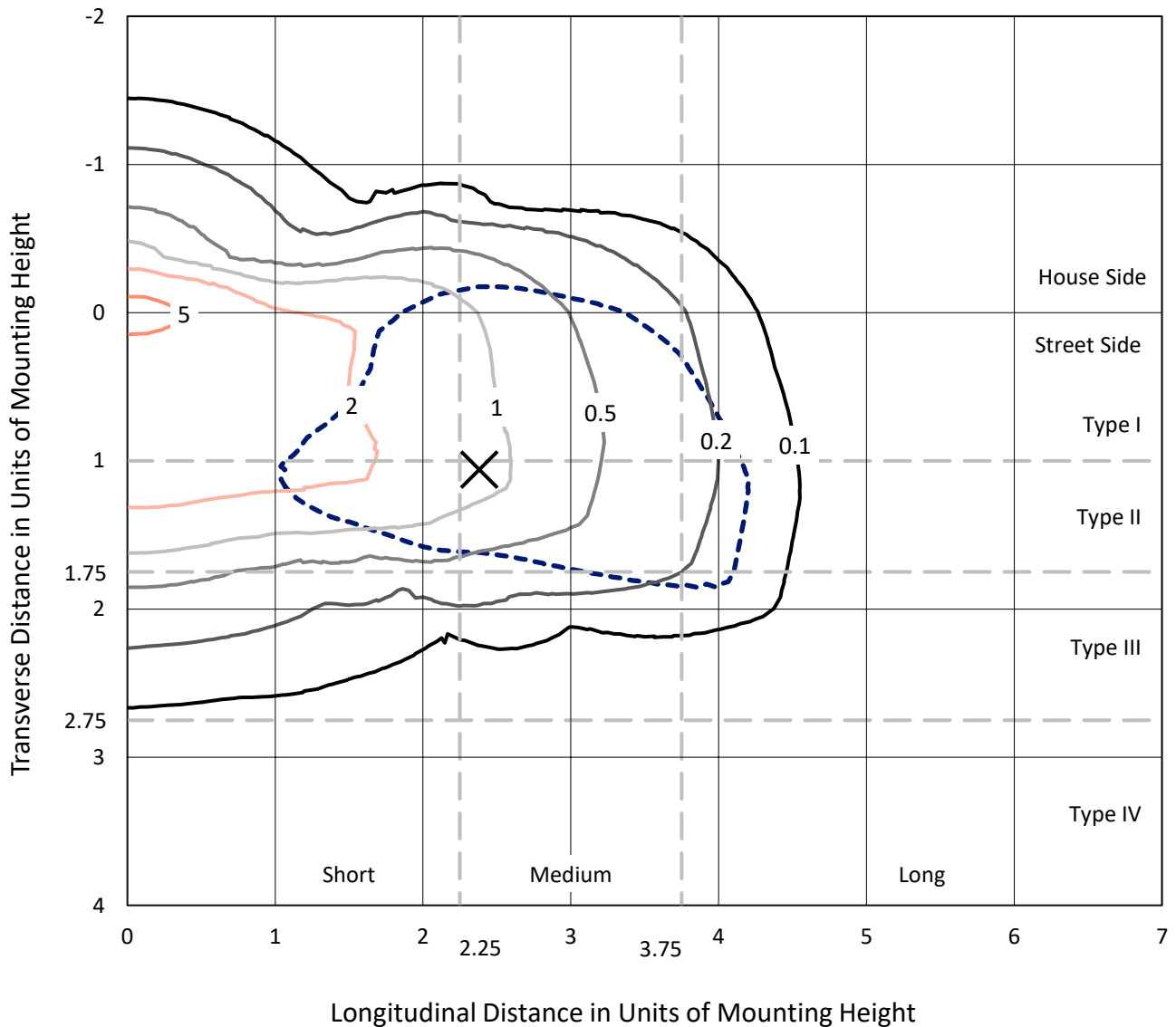
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

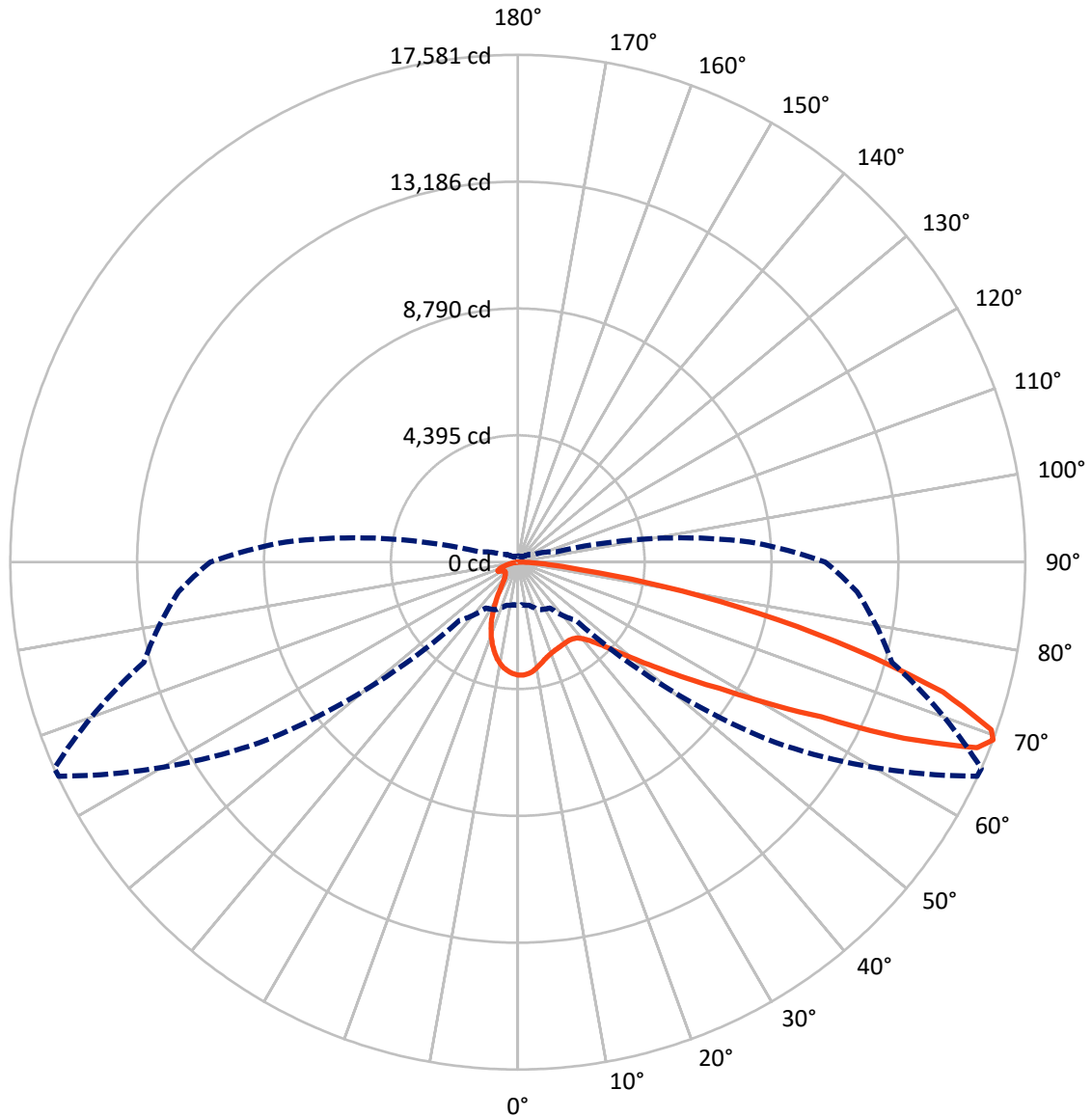
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3188.8	0.0	3188.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	13767.2	0.0	13767.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	16956.0	0.0	16956.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	340.0	2.0
10°-20°	806.5	4.8
20°-30°	1098.0	6.5
30°-40°	1475.4	8.7
40°-50°	2203.1	13.0
50°-60°	3504.3	20.7
60°-70°	4310.1	25.4
70°-80°	2804.4	16.5
80°-90°	414.1	2.4
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°	16956.0	100.0
0°-180°	16956.0	100.0

Coefficient of Utilization



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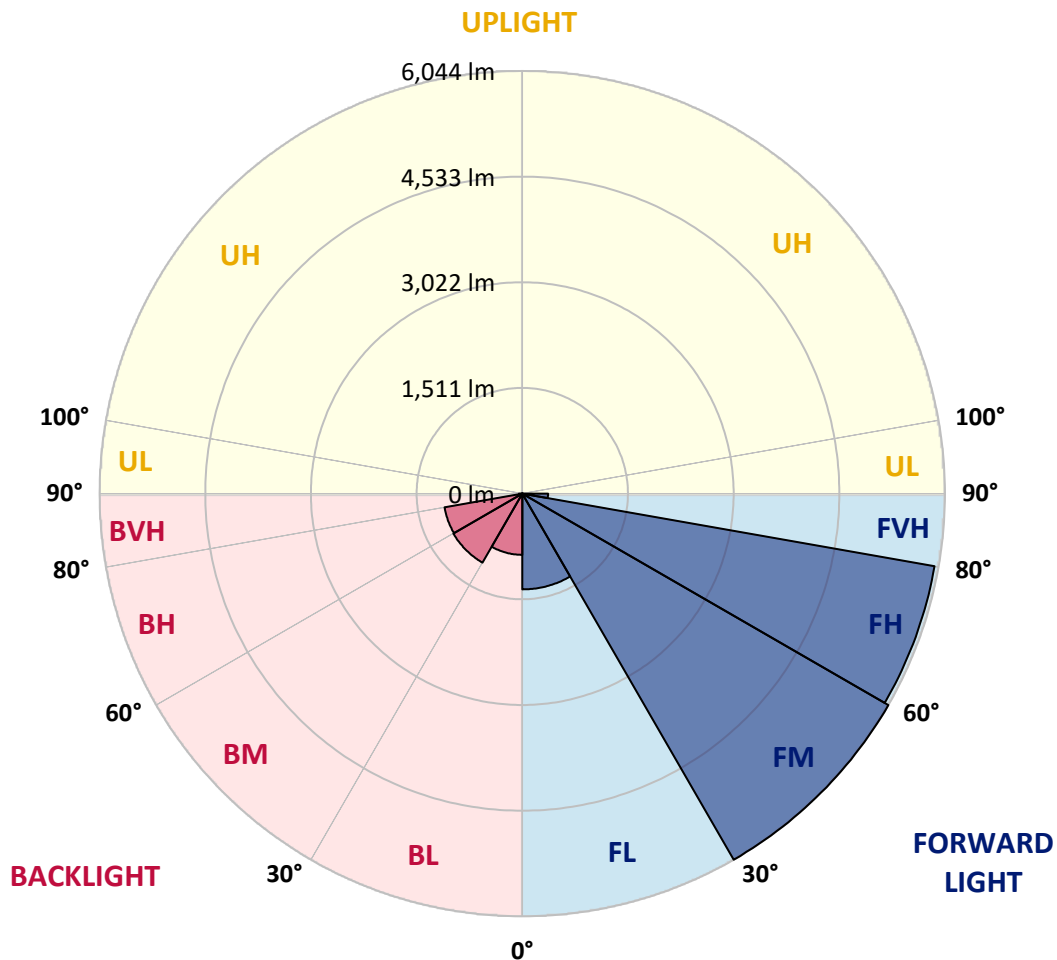
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1369.2	8.1			
FM (30°-60°)	6044.3	35.6			
FH (60°-80°)	5985.6	35.3			G3/7500
FVH (80°-90°)	368.2	2.2			G3/500
BL (0°-30°)	875.3	5.2	B2/1000		
BM (30°-60°)	1138.5	6.7	B2/2500		
BH (60°-80°)	1129.0	6.7	B3/2500		G3/2500
BVH (80°-90°)	45.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3915.6	3915.6	3915.6	3915.6	3915.6	3915.6	3915.6	3915.6	3915.6	3915.6	3915.6
2.5°	3778.5	3793.5	3810.4	3829.2	3864.9	3884.6	3898.7	3914.7	3916.6	3925.0	3918.4
5°	3499.6	3517.5	3542.8	3578.5	3632.0	3715.6	3802.0	3872.4	3880.9	3920.3	3931.6
7.5°	3266.8	3277.1	3297.8	3355.0	3431.1	3524.1	3649.9	3792.6	3813.3	3907.2	3940.0
10°	3077.1	3087.4	3111.8	3171.0	3246.1	3362.5	3500.6	3688.4	3705.3	3866.8	3941.9
12.5°	2935.3	2944.7	2971.0	3029.2	3115.6	3224.5	3376.6	3575.7	3600.1	3813.3	3924.1
15°	2827.3	2845.2	2866.8	2914.6	3005.7	3110.9	3258.3	3472.4	3492.1	3756.9	3911.9
17.5°	2781.3	2789.8	2804.8	2848.9	2915.6	3018.9	3167.2	3391.7	3415.1	3717.5	3909.0
20°	2783.2	2791.6	2794.5	2818.9	2866.8	2956.0	3102.4	3327.8	3356.0	3682.7	3913.7
22.5°	2847.0	2848.0	2837.6	2829.2	2848.0	2922.2	3056.4	3279.9	3312.8	3667.7	3917.5
25°	2945.6	2962.5	2947.5	2908.1	2873.3	2909.0	3038.6	3253.6	3284.6	3646.1	3912.8
27.5°	3105.3	3108.1	3095.9	3042.3	2952.2	2925.9	3031.1	3233.9	3260.2	3630.2	3889.3
30°	3319.3	3310.9	3299.6	3240.5	3098.7	2990.7	3047.0	3216.1	3243.3	3606.7	3861.1
32.5°	3536.3	3562.5	3552.2	3482.7	3298.7	3116.5	3098.7	3214.2	3236.7	3588.8	3830.2
35°	3766.3	3778.5	3827.3	3791.7	3602.9	3320.3	3195.4	3243.3	3261.1	3589.8	3808.6
37.5°	3946.6	3979.5	4094.0	4125.0	3947.5	3589.8	3352.2	3325.9	3333.4	3635.8	3817.0
40°	4164.4	4220.8	4368.2	4495.0	4378.5	3940.0	3618.9	3479.0	3488.4	3746.6	3872.4
42.5°	4440.5	4479.9	4678.1	4849.9	4831.1	4403.0	3941.9	3729.7	3734.4	3967.3	4027.4
45°	4763.5	4819.9	5042.4	5300.6	5344.8	4926.9	4408.6	4109.0	4106.2	4310.0	4316.6
47.5°	5176.7	5211.4	5432.1	5713.8	5892.2	5585.1	4974.8	4653.7	4623.6	4809.5	4756.0
50°	5557.0	5611.4	5778.6	6086.6	6530.7	6356.1	5719.4	5359.8	5289.4	5463.1	5372.9
52.5°	5716.6	5773.9	5914.7	6296.9	7078.1	7353.3	6665.0	6202.1	6084.7	6218.0	6185.2
55°	5439.6	5513.8	5645.2	6110.0	7318.5	8503.5	7940.1	7175.8	7090.4	7033.1	7042.5
57.5°	4695.0	4765.4	4942.9	5455.6	7031.2	9338.3	9760.9	8427.5	8244.4	7980.5	8025.6
60°	3573.8	3617.9	3710.0	4278.1	6179.5	9555.2	11828.5	10009.7	9893.3	8924.2	8956.1
62.5°	2538.1	2587.9	2651.7	2935.3	4524.1	8943.9	13447.4	12219.1	11803.2	9901.7	9870.7
65°	2061.1	2027.3	2104.3	2236.7	2654.5	6931.7	13811.7	15285.9	14713.1	11189.1	10759.0
67.5°	1694.9	1659.2	1735.3	1971.0	2018.8	4023.6	12499.0	17276.6	17162.0	12589.1	11661.4
69°	1500.5	1481.7	1548.4	1817.0	1938.1	2857.4	10888.6	17553.6	17580.8	13414.5	11800.4
70°	1352.2	1359.7	1424.5	1739.0	1901.5	2355.9	9306.4	17171.4	17402.4	13826.7	11650.1
72.5°	995.3	1011.3	1101.4	1440.4	1866.7	1999.1	5538.2	14998.6	15407.0	13851.1	10657.6
75°	695.8	688.3	768.1	1084.5	1763.4	1981.3	3252.7	11599.4	12062.3	11972.2	8955.2
77.5°	455.4	467.6	531.5	766.2	1483.6	1966.3	2120.3	8229.4	8529.8	8006.8	5296.9
80°	321.1	320.2	355.9	523.0	1100.5	1889.3	1736.2	5187.0	5111.0	3146.6	1570.9
82.5°	184.0	197.2	238.5	368.1	736.2	1663.0	1597.2	2480.8	2264.9	896.7	530.5
85°	102.4	107.0	141.8	222.5	430.1	1252.6	1394.4	1128.7	1064.8	374.7	228.2
87.5°	32.9	35.7	59.2	112.7	195.3	591.6	789.7	521.1	480.8	135.2	92.0
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°	3915.6	3915.6	3915.6	3915.6	3915.6	3915.6	3915.6	3915.6	3915.6	3915.6	3915.6
2.5°	3921.2	3932.5	3902.5	3873.4	3847.1	3810.4	3777.6	3750.3	3731.6	3728.8	3719.4
5°	3934.4	3935.3	3878.1	3801.1	3725.9	3643.3	3557.9	3496.8	3439.5	3407.6	3391.7
7.5°	3943.8	3935.3	3832.0	3707.2	3562.5	3412.3	3262.1	3141.9	3048.9	3012.3	3026.4
10°	3940.0	3913.7	3762.6	3562.5	3352.2	3127.8	2911.8	2742.8	2587.9	2508.1	2509.9
12.5°	3919.4	3876.2	3659.3	3400.1	3091.2	2790.7	2460.2	2232.0	2052.6	1946.5	1913.7
15°	3901.5	3826.4	3538.1	3179.4	2795.4	2366.3	1963.4	1681.7	1531.5	1447.9	1447.0
17.5°	3882.7	3778.5	3405.7	2945.6	2455.5	1903.3	1480.8	1265.8	1195.3	1203.8	1189.7
20°	3863.0	3722.2	3267.7	2685.5	2041.4	1419.8	1109.0	1021.6	1041.3	1079.8	1085.5
22.5°	3840.5	3662.1	3119.3	2399.1	1605.7	1068.6	899.6	886.4	937.1	997.2	1005.7
25°	3805.7	3587.0	2932.5	2099.6	1238.5	861.1	787.8	797.2	847.0	897.7	903.3
27.5°	3756.9	3494.0	2743.7	1725.9	930.5	739.0	720.2	732.4	756.8	787.8	795.3
30°	3691.2	3388.8	2526.8	1402.9	745.6	678.0	670.4	677.0	691.1	704.2	708.0
32.5°	3625.5	3287.4	2308.1	1074.2	664.8	637.6	630.1	630.1	630.1	631.9	632.9
35°	3564.4	3191.6	2073.3	836.6	622.6	605.7	595.3	584.1	582.2	575.6	575.6
37.5°	3530.6	3104.3	1823.5	700.5	591.6	579.4	565.3	546.5	536.2	537.1	535.2
40°	3537.2	3047.0	1596.3	623.5	566.2	553.1	531.5	509.9	503.3	503.3	501.4
42.5°	3611.4	3028.3	1378.4	583.1	541.8	526.8	499.5	479.8	476.1	475.1	477.0
45°	3782.3	3074.3	1183.1	556.8	521.1	498.6	471.4	453.5	449.8	449.8	448.8
47.5°	4115.6	3223.6	1043.2	539.9	506.1	477.0	448.8	431.0	424.4	422.5	422.5
50°	4633.9	3547.5	939.0	524.9	487.3	457.3	428.2	407.5	397.2	396.3	395.3
52.5°	5354.2	4052.7	898.6	513.6	466.7	436.6	404.7	385.0	371.8	369.0	367.1
55°	6196.4	4757.9	954.0	505.2	445.1	413.2	380.3	359.6	347.4	341.8	340.9
57.5°	7172.0	5604.9	1164.4	493.9	425.4	387.8	355.9	335.2	322.1	315.5	313.6
60°	8048.1	6475.3	1531.5	487.3	408.5	360.6	327.7	308.9	296.7	290.1	289.2
62.5°	9010.6	7305.4	1970.0	505.2	401.0	334.3	301.4	284.5	274.2	267.6	267.6
65°	10038.8	8136.4	2260.2	565.3	412.2	313.6	273.2	259.2	249.8	245.1	244.1
67.5°	10731.8	8423.7	1862.0	627.2	440.4	291.1	246.0	234.7	229.1	224.4	224.4
69°	10656.7	8060.3	1373.8	643.2	448.8	279.8	231.0	222.5	215.0	213.2	211.3
70°	10419.1	7646.2	1151.2	632.9	442.3	269.5	221.6	211.3	204.7	202.8	201.9
72.5°	9280.1	6631.2	857.3	550.3	376.5	233.8	196.3	186.9	181.2	178.4	178.4
75°	7710.1	5419.9	669.5	437.6	294.8	197.2	168.1	160.6	155.9	154.0	153.1
77.5°	4321.3	3026.4	480.8	342.7	223.5	159.6	140.8	134.3	129.6	127.7	127.7
80°	1203.8	864.8	282.6	226.3	152.1	121.1	111.7	107.0	100.5	95.8	98.6
82.5°	453.5	374.7	161.5	136.2	96.7	80.8	77.9	74.2	71.4	64.8	64.8
85°	220.7	182.2	103.3	72.3	53.5	42.3	40.4	38.5	36.6	31.9	32.9
87.5°	76.1	80.8	45.1	26.3	16.0	10.3	8.5	4.7	4.7	4.7	4.7
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)