

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: P527686

Luminaire Tested: **GALN-SA2D-727-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527686
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-727-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11028 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

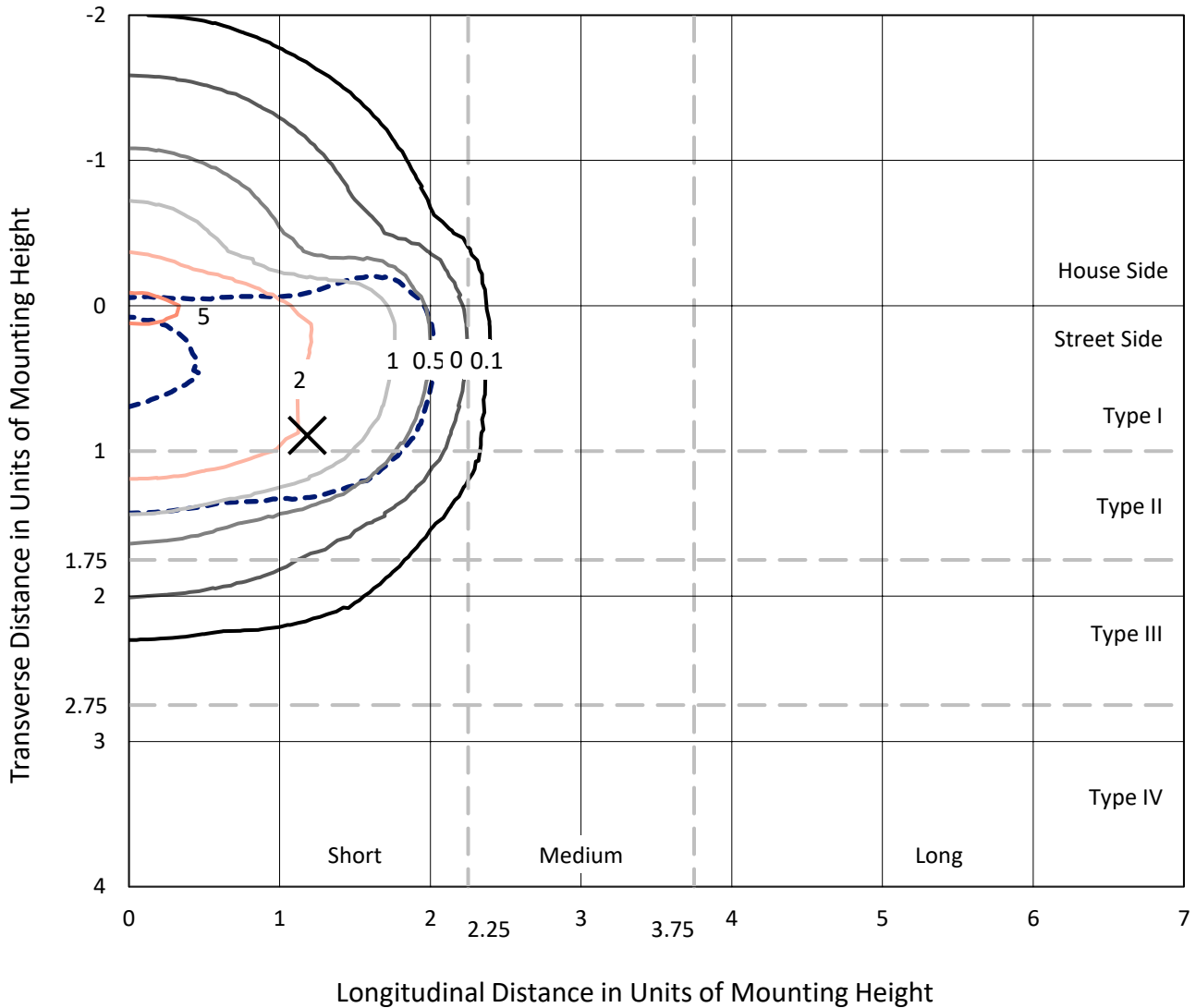
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

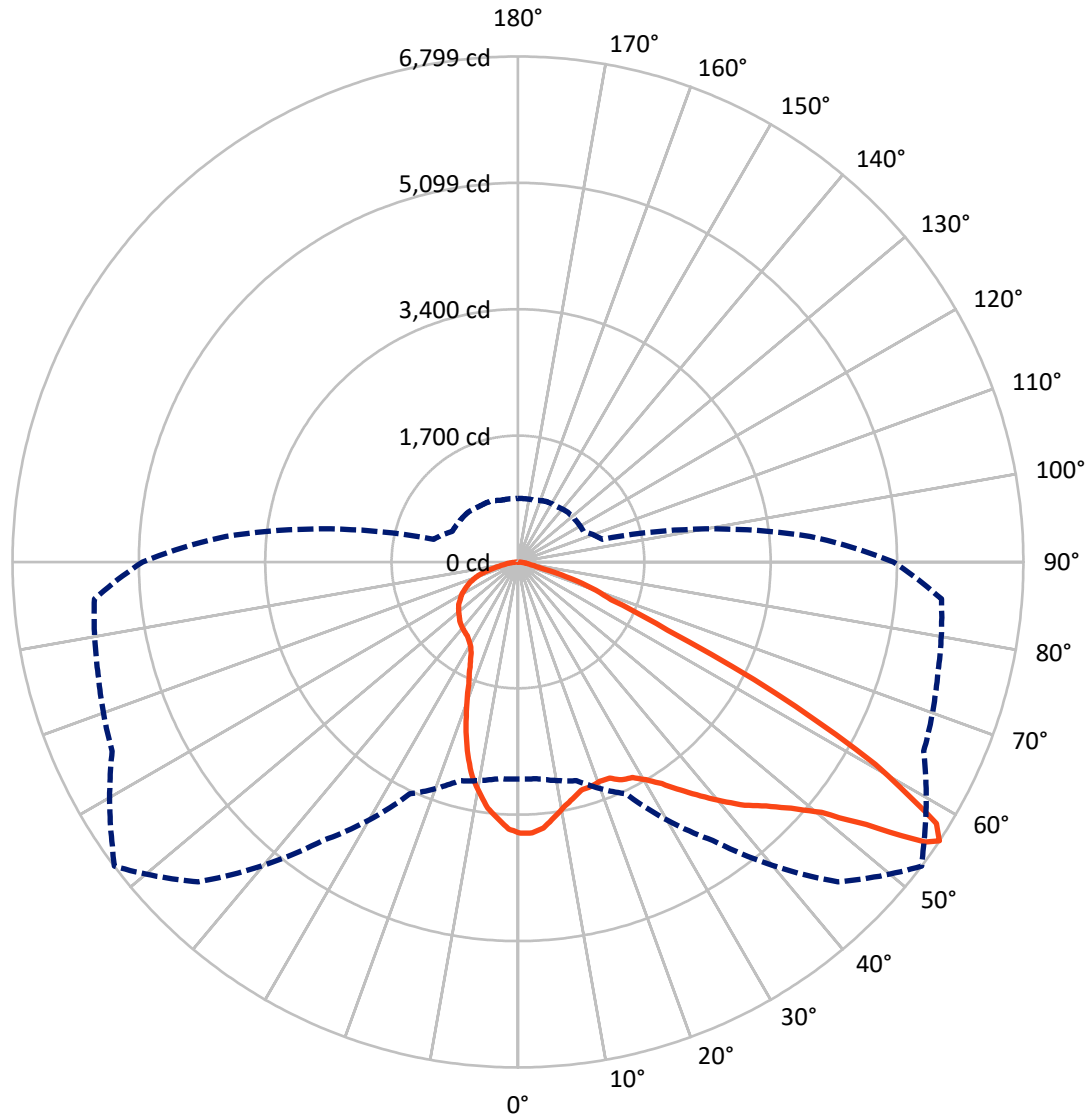
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3218.2	0.0	3218.2
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	7809.8	0.0	7809.8
	% Fixture	70.8	0.0	70.8
Total	Lumens	11028.0	0.0	11028.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.0	2.9
10°-20°	806.7	7.3
20°-30°	1189.6	10.8
30°-40°	1699.6	15.4
40°-50°	2339.3	21.2
50°-60°	2764.5	25.1
60°-70°	1473.3	13.4
70°-80°	373.8	3.4
80°-90°	58.3	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°	11028.0	100.0
0°-180°	11028.0	100.0

Coefficient of Utilization



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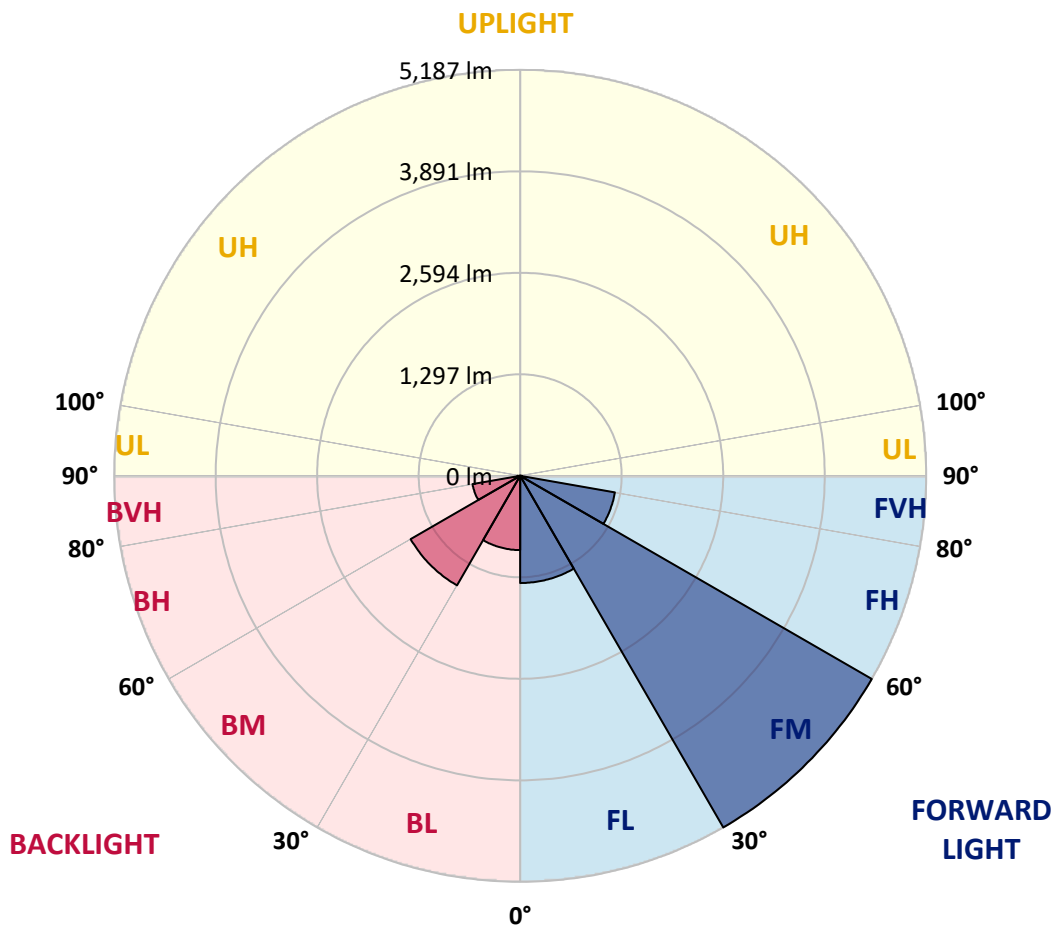
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1370.1	12.4			
FM (30°-60°)	5187.4	47.0			
FH (60°-80°)	1228.9	11.1			G1/1800
FVH (80°-90°)	23.4	0.2			G1/100
BL (0°-30°)	949.2	8.6	B2/1000		
BM (30°-60°)	1616.1	14.7	B2/2500		
BH (60°-80°)	618.1	5.6	B2/1000		G2/1000
BVH (80°-90°)	34.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	3648.5	3648.5	3648.5	3648.5	3648.5	3648.5	3648.5	3648.5	3648.5	3648.5	3648.5
2.5°	3603.2	3572.1	3590.5	3583.4	3641.4	3658.4	3649.9	3657.0	3689.5	3674.0	3641.4
5°	3367.0	3410.8	3419.3	3440.5	3474.5	3541.0	3593.3	3607.5	3623.0	3695.2	3688.1
7.5°	3151.9	3181.6	3166.1	3228.3	3301.9	3409.4	3473.1	3484.4	3627.3	3666.9	3696.6
10°	3016.1	2986.4	3057.2	3074.1	3157.6	3280.7	3357.1	3403.8	3533.9	3690.9	3709.3
12.5°	2890.2	2880.3	2922.8	2970.9	3064.2	3191.6	3269.4	3287.7	3488.6	3654.2	3740.5
15°	2796.9	2785.5	2828.0	2863.3	2972.3	3085.4	3184.5	3236.8	3439.1	3632.9	3713.6
17.5°	2723.3	2721.9	2745.9	2809.6	2921.3	3016.1	3176.0	3178.8	3413.7	3665.5	3736.2
20°	2719.0	2717.6	2721.9	2792.6	2894.5	3010.5	3149.1	3174.6	3413.7	3642.8	3737.6
22.5°	2754.4	2731.8	2757.2	2802.5	2876.1	3020.4	3159.0	3215.6	3495.7	3754.6	3801.3
25°	2811.0	2816.7	2830.8	2846.4	2888.8	3043.0	3246.7	3293.4	3591.9	3850.8	3889.0
27.5°	2914.3	2911.4	2917.1	2925.6	2962.4	3064.2	3282.1	3402.3	3792.8	4022.0	3983.8
30°	3065.6	3055.7	3078.4	3108.1	3074.1	3132.1	3399.5	3490.1	3979.5	4194.6	4089.9
32.5°	3202.9	3239.7	3282.1	3294.8	3253.8	3265.1	3555.1	3647.1	4135.2	4406.8	4220.0
35°	3374.0	3403.8	3460.3	3500.0	3492.9	3458.9	3767.3	3889.0	4360.1	4562.4	4357.3
37.5°	3541.0	3576.3	3669.7	3787.1	3722.1	3706.5	3993.7	4094.1	4429.4	4645.9	4457.7
40°	3809.8	3808.4	3969.6	4030.5	4088.5	4061.6	4228.5	4262.5	4466.2	4627.5	4460.5
42.5°	4125.2	4105.4	4269.5	4364.3	4439.3	4442.1	4473.3	4461.9	4483.2	4534.1	4430.8
45°	4425.2	4467.6	4633.1	4802.9	4877.9	4886.4	4679.8	4658.6	4512.9	4507.2	4374.2
47.5°	4791.6	4801.5	4937.3	5160.8	5334.8	5275.4	4947.2	4900.5	4643.0	4686.9	4469.0
50°	4812.8	4886.4	5008.0	5271.2	5805.9	5790.3	5293.8	5206.1	4852.4	4941.5	4733.6
52.5°	4368.6	4351.6	4495.9	4926.0	5770.5	6302.5	5868.2	5658.8	5302.3	5234.4	5162.2
55°	3328.8	3368.4	3495.7	3930.0	5010.8	6309.5	6650.5	6479.3	5783.3	5667.3	5583.8
56°	2919.9	2925.6	3045.8	3442.0	4572.3	6084.6	6799.0	6660.4	6022.4	5845.5	5718.2
57.5°	2420.5	2388.0	2450.3	2666.7	3859.3	5609.3	6636.3	6772.1	6302.5	6037.9	5861.1
60°	1905.6	1898.5	1873.1	1912.7	2438.9	4225.7	5524.4	5830.0	6274.2	5856.8	5613.5
62.5°	1556.2	1520.8	1571.7	1628.3	1694.8	2621.4	3881.9	4061.6	4981.1	4675.6	4217.2
65°	1206.7	1189.8	1253.4	1437.3	1476.9	1665.1	2211.2	2349.8	2941.1	2888.8	2543.6
67.5°	830.4	833.3	888.4	1168.5	1369.4	1352.4	1353.9	1426.0	1534.9	1140.2	993.1
70°	526.3	524.9	554.6	752.6	1102.0	1113.4	1056.8	1035.6	981.8	594.2	629.5
72.5°	338.1	328.2	343.8	415.9	570.1	659.2	679.1	691.8	568.7	466.8	506.5
75°	191.0	181.1	175.4	193.8	224.9	260.3	285.8	294.3	329.6	353.7	374.9
77.5°	58.0	52.3	63.7	84.9	111.8	150.0	182.5	188.2	222.1	250.4	271.6
80°	25.5	28.3	39.6	56.6	79.2	106.1	128.7	137.2	159.9	181.1	186.7
82.5°	15.6	17.0	26.9	38.2	55.2	75.0	92.0	94.8	117.4	134.4	138.6
85°	5.7	7.1	14.1	22.6	35.4	48.1	48.1	52.3	48.1	48.1	52.3
87.5°	0.0	0.0	1.4	2.8	2.8	4.2	5.7	5.7	7.1	8.5	9.9
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°	3648.5	3648.5	3648.5	3648.5	3648.5	3648.5	3648.5	3648.5	3648.5	3648.5	3648.5
2.5°	3658.4	3651.3	3640.0	3599.0	3594.7	3582.0	3511.3	3500.0	3511.3	3477.3	3480.1
5°	3651.3	3672.5	3587.7	3546.6	3470.2	3415.1	3351.4	3318.9	3260.9	3224.1	3265.1
7.5°	3682.4	3674.0	3567.9	3478.7	3364.1	3224.1	3112.3	3048.7	2946.8	2918.5	2939.7
10°	3671.1	3625.9	3501.4	3383.9	3167.5	3044.4	2863.3	2687.9	2591.7	2542.2	2535.1
12.5°	3655.6	3642.8	3434.9	3232.6	3004.8	2745.9	2491.3	2325.8	2168.7	2100.8	2110.7
15°	3674.0	3566.4	3310.4	3054.3	2751.6	2412.1	2137.6	1924.0	1815.1	1771.2	1771.2
17.5°	3665.5	3529.7	3251.0	2854.9	2471.5	2069.7	1768.4	1639.6	1594.4	1594.4	1607.1
20°	3669.7	3553.7	3130.7	2655.4	2140.4	1742.9	1523.6	1476.9	1496.7	1503.8	1510.9
22.5°	3693.8	3474.5	3013.3	2436.1	1833.4	1491.1	1383.6	1385.0	1420.4	1458.5	1451.5
25°	3723.5	3443.4	2870.4	2218.2	1598.6	1368.0	1334.1	1329.8	1356.7	1376.5	1379.3
27.5°	3698.0	3389.6	2724.7	1946.6	1406.2	1286.0	1278.9	1281.7	1290.2	1329.8	1317.1
30°	3781.5	3405.2	2542.2	1718.9	1300.1	1259.1	1250.6	1246.3	1259.1	1270.4	1260.5
32.5°	3884.8	3350.0	2406.4	1499.6	1247.8	1239.3	1222.3	1216.6	1223.7	1212.4	1218.1
35°	3930.0	3340.1	2229.6	1342.5	1206.7	1199.7	1189.8	1188.3	1189.8	1179.9	1171.4
37.5°	3955.5	3386.8	2027.3	1270.4	1181.3	1188.3	1165.7	1162.9	1137.4	1143.1	1147.3
40°	3999.3	3314.6	1863.2	1201.1	1165.7	1151.6	1131.8	1127.5	1110.5	1100.6	1110.5
42.5°	3935.7	3293.4	1701.9	1171.4	1143.1	1127.5	1113.4	1089.3	1083.7	1075.2	1069.5
45°	3884.8	3171.7	1557.6	1134.6	1116.2	1107.7	1080.8	1055.4	1034.1	1042.6	1029.9
47.5°	3922.9	3129.3	1414.7	1103.5	1079.4	1069.5	1042.6	1022.8	1001.6	991.7	988.9
50°	4075.7	3208.5	1294.4	1080.8	1048.3	1042.6	1007.3	984.6	964.8	957.7	960.6
52.5°	4440.7	3425.0	1212.4	1034.1	1018.6	993.1	973.3	945.0	932.3	909.6	923.8
55°	4903.3	3777.2	1191.2	990.3	981.8	959.2	932.3	911.1	887.0	868.6	864.4
56°	5051.9	3945.6	1174.2	973.3	959.2	946.4	911.1	898.3	860.1	855.9	853.1
57.5°	5172.1	4094.1	1177.0	940.8	926.6	915.3	894.1	863.0	837.5	821.9	829.0
60°	4900.5	3832.4	1123.3	891.3	888.4	867.2	837.5	823.4	792.2	773.8	769.6
62.5°	3642.8	2601.6	911.1	827.6	826.2	803.5	769.6	754.0	748.4	722.9	722.9
65°	2098.0	1631.1	788.0	775.3	763.9	741.3	707.3	694.6	680.5	672.0	664.9
67.5°	895.5	846.0	715.8	714.4	701.7	673.4	639.4	619.6	601.2	584.3	592.8
70°	649.3	659.2	646.5	639.4	623.9	588.5	558.8	534.8	506.5	495.1	503.6
72.5°	514.9	536.2	554.6	556.0	537.6	496.6	464.0	431.5	400.4	384.8	391.9
75°	390.5	404.6	423.0	427.2	400.4	372.1	340.9	307.0	282.9	264.5	267.4
77.5°	281.5	278.7	295.7	292.8	280.1	260.3	232.0	200.9	174.0	157.0	158.4
80°	192.4	196.6	206.5	205.1	189.6	176.8	155.6	130.2	110.3	96.2	93.4
82.5°	134.4	141.5	150.0	142.9	130.2	117.4	101.9	83.5	67.9	56.6	53.8
85°	48.1	55.2	63.7	67.9	72.1	69.3	58.0	46.7	34.0	28.3	26.9
87.5°	9.9	11.3	12.7	12.7	12.7	11.3	9.9	9.9	8.5	4.2	4.2
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)