

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: P530574

Luminaire Tested: **GALN-SA5D-740-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530574
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-740-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32774 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

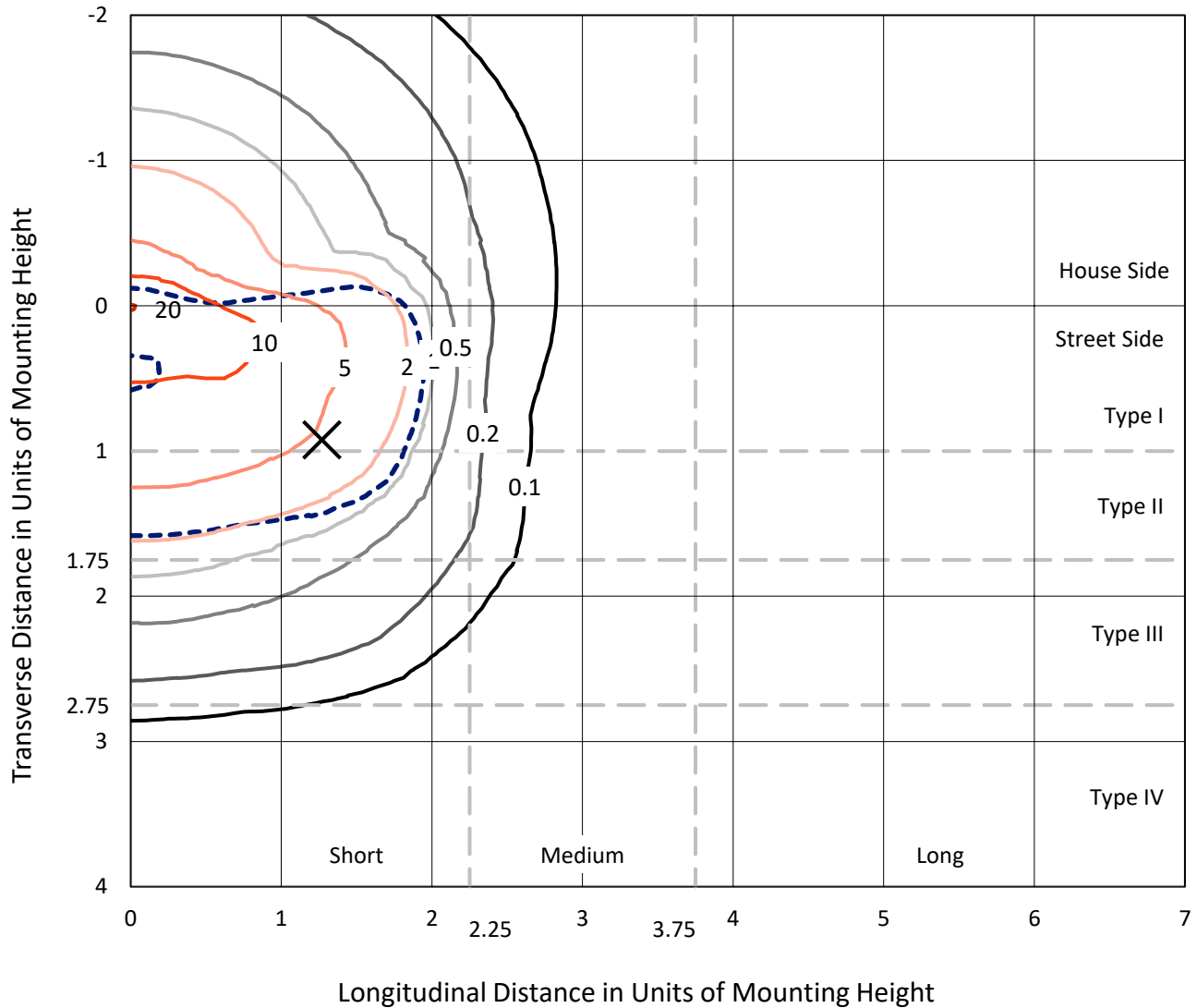
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

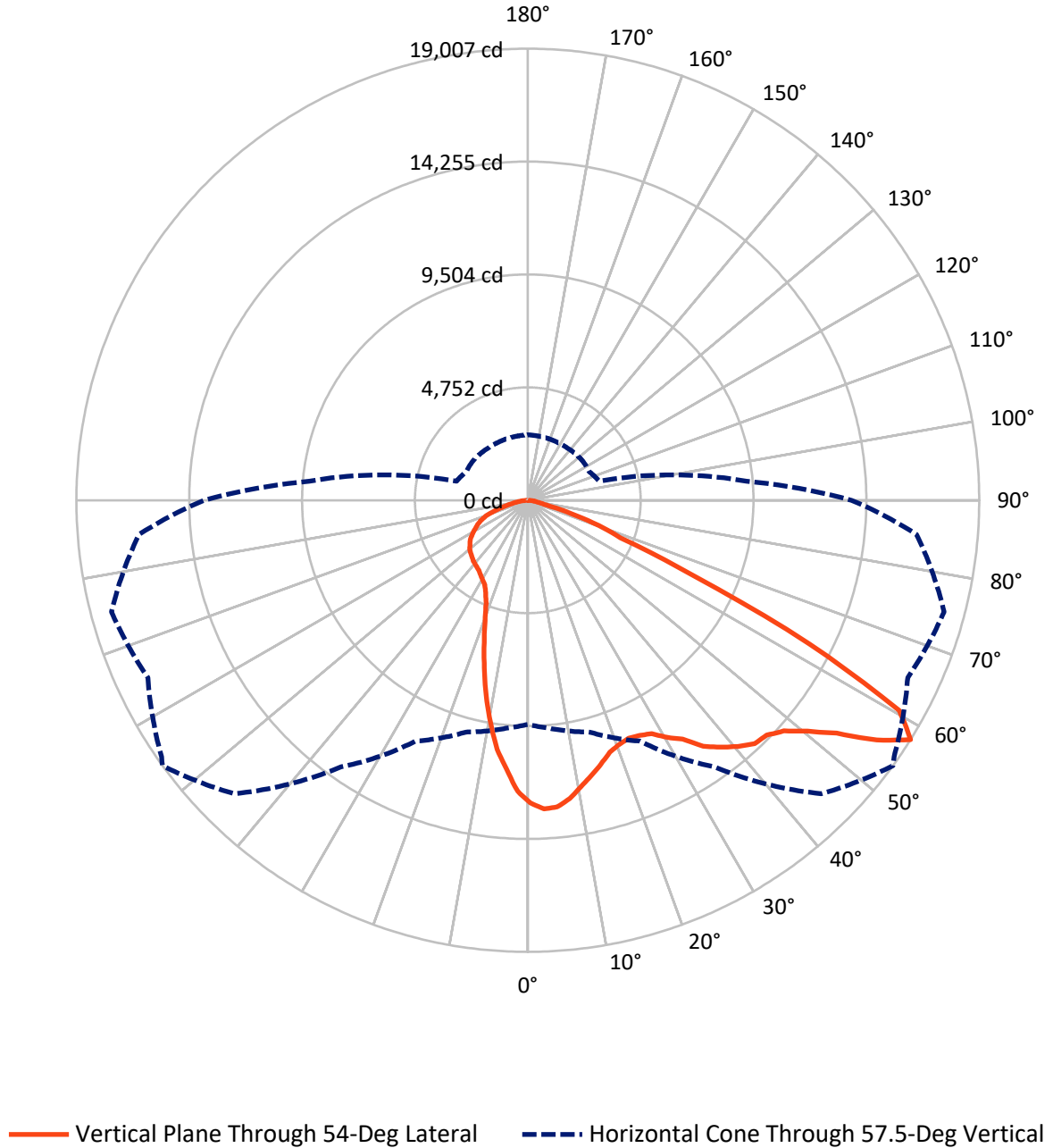
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.4 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	9067.1	0.0	9067.1
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	23706.9	0.0	23706.9
	% Fixture	72.3	0.0	72.3
Total	Lumens	32774.0	0.0	32774.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1098.6	3.4
10°-20°	2543.7	7.8
20°-30°	3573.9	10.9
30°-40°	4996.3	15.2
40°-50°	6764.1	20.6
50°-60°	8238.9	25.1
60°-70°	4291.2	13.1
70°-80°	1099.6	3.4
80°-90°	167.7	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°	32774.0	100.0
0°-180°	32774.0	100.0

Coefficient of Utilization



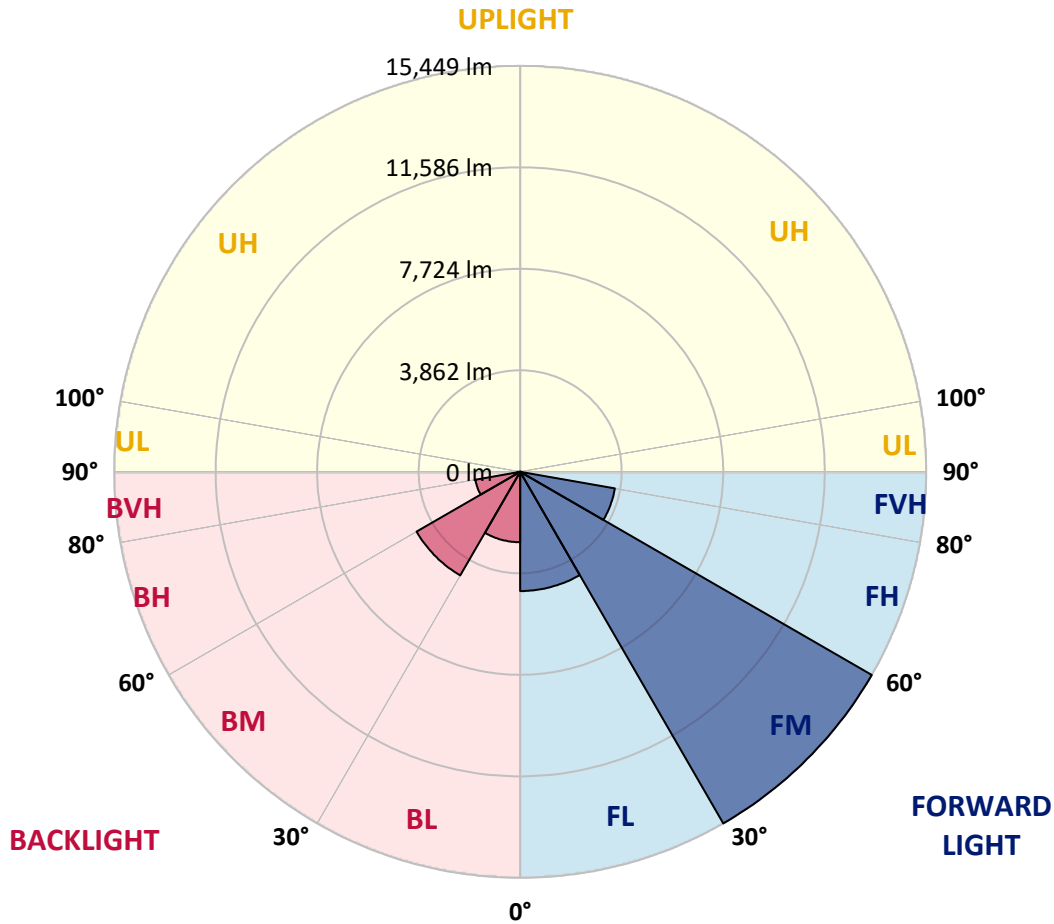
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4536.4	13.8			
FM (30°-60°)	15448.6	47.1			
FH (60°-80°)	3658.5	11.2			G2/5000
FVH (80°-90°)	63.4	0.2			G1/100
BL (0°-30°)	2679.8	8.2	B4/5000		
BM (30°-60°)	4550.7	13.9	B3/5000		
BH (60°-80°)	1732.3	5.3	B3/2500		G3/2500
BVH (80°-90°)	104.4	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	12738.9	12738.9	12738.9	12738.9	12738.9	12738.9	12738.9	12738.9	12738.9	12738.9	12738.9
2.5°	13101.2	13050.6	13059.0	13126.4	13042.2	13008.5	13008.5	12844.2	12856.8	12743.1	12713.6
5°	12797.9	12679.9	12759.9	12861.0	12877.9	12911.6	12966.4	12924.2	12806.3	12684.1	12486.1
7.5°	12005.9	12111.2	12140.7	12212.3	12364.0	12503.0	12675.7	12557.7	12553.5	12431.4	12313.4
10°	11310.8	11247.6	11407.7	11513.0	11765.8	11997.5	12262.9	12250.2	12313.4	12174.4	11972.2
12.5°	10619.9	10569.4	10645.2	10885.3	11239.2	11576.2	11892.1	11774.2	12111.2	12085.9	11652.0
15°	9887.0	9924.9	10034.4	10257.7	10721.0	11125.5	11525.7	11529.9	11829.0	11930.1	11348.7
17.5°	9373.0	9330.9	9469.9	9802.7	10215.5	10700.0	11154.9	11247.6	11706.8	11765.8	11256.0
20°	8989.7	9048.6	9229.8	9398.3	9874.3	10459.9	10973.8	11007.5	11681.5	11841.6	11108.6
22.5°	8897.0	8863.3	8922.3	9196.1	9587.9	10224.0	10876.9	11003.3	11677.3	11816.3	10830.6
25°	8800.1	8909.6	8905.4	9179.2	9465.7	10034.4	10957.0	11096.0	11900.6	11946.9	10868.5
27.5°	9019.2	9006.5	9124.5	9145.5	9499.4	10084.9	11125.5	11230.8	12271.3	12233.4	10898.0
30°	9238.2	9175.0	9246.6	9495.2	9659.5	10375.6	11588.8	11580.4	12751.5	12726.2	10990.7
32.5°	9507.8	9478.3	9524.7	9743.7	10021.8	10763.2	11980.6	12229.2	13240.2	13400.3	11310.8
35°	9558.4	9680.5	9790.1	10084.9	10480.9	11390.8	12717.8	12924.2	13804.7	14306.0	11921.6
37.5°	9878.5	9924.9	10181.8	10704.2	11066.5	12229.2	13185.4	13316.0	14318.6	14887.3	12566.2
40°	10219.7	10274.5	10662.1	11209.7	11706.8	12776.8	13623.5	13665.6	14482.9	15333.8	12987.4
42.5°	10683.1	10733.7	11117.0	11803.7	12469.3	13244.4	14011.1	14057.4	14470.3	15847.8	13657.2
45°	11163.4	11285.5	11736.3	12515.6	13113.8	13792.0	14099.5	14289.1	14588.2	16306.9	14200.6
47.5°	11837.4	11951.1	12321.8	13084.3	13783.6	14272.3	14508.2	14693.5	14870.4	16707.1	14550.3
50°	12553.5	12574.6	13025.3	13716.2	14230.1	14815.7	15270.6	15333.8	15241.2	17170.5	15144.3
52.5°	13080.1	13147.5	13497.1	14171.2	14937.9	15658.2	16281.7	16349.1	16167.9	17343.2	15346.5
55°	12208.1	12170.2	12738.9	13636.2	15413.9	16913.6	17819.3	17869.8	16841.9	17878.2	16007.8
57.5°	9436.2	9617.3	10101.8	11184.4	13695.1	17469.6	19007.2	18826.1	17650.8	18147.8	16429.1
60°	6858.1	6816.0	7140.3	7864.9	10320.9	15055.8	17970.9	18156.3	16989.4	16357.5	13547.7
62.5°	5585.9	5526.9	5552.2	5577.5	6660.1	9992.3	13303.4	13299.2	13084.3	11757.3	9137.1
65°	4465.3	4604.4	4617.0	4806.6	4945.6	5969.2	7709.0	8121.9	7072.9	5800.7	4208.4
67.5°	3365.9	3315.3	3483.8	4157.8	4419.0	4309.5	4208.4	4254.7	3024.6	2182.1	2055.7
70°	1984.1	1963.1	2165.3	2898.3	3639.7	3424.8	3172.1	3176.3	2076.8	1525.0	1697.7
72.5°	1086.8	1082.6	1124.8	1470.2	2068.4	2148.4	1904.1	1963.1	1238.5	1234.3	1327.0
75°	606.6	594.0	581.3	648.7	745.6	787.8	804.6	813.0	850.9	952.0	990.0
77.5°	223.3	214.8	214.8	248.5	315.9	396.0	501.3	509.7	602.4	690.9	728.8
80°	75.8	84.3	113.7	155.9	210.6	282.2	341.2	349.6	425.5	484.4	497.1
82.5°	46.3	50.6	75.8	109.5	151.7	198.0	252.8	257.0	315.9	353.9	370.7
85°	21.1	25.3	42.1	67.4	96.9	130.6	134.8	134.8	130.6	134.8	126.4
87.5°	0.0	0.0	8.4	8.4	8.4	12.6	16.9	12.6	21.1	25.3	25.3
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°	12738.9	12738.9	12738.9	12738.9	12738.9	12738.9	12738.9	12738.9	12738.9	12738.9	12738.9
2.5°	12625.1	12578.8	12435.6	12309.2	12271.3	12102.8	11854.2	11883.7	11702.6	11786.8	11698.4
5°	12452.4	12296.6	11930.1	11774.2	11365.6	11180.2	11053.8	10737.9	10590.5	10561.0	10434.6
7.5°	12010.1	11913.2	11454.0	11032.8	10598.9	10228.2	9752.2	9427.8	9196.1	9132.9	8947.5
10°	11660.5	11445.6	10809.5	10169.2	9549.9	8905.4	8286.2	7801.7	7565.8	7292.0	7199.3
12.5°	11315.0	10990.7	10131.3	9309.8	8509.4	7696.4	6946.6	6356.8	5842.9	5720.7	5678.6
15°	11100.2	10535.7	9524.7	8534.7	7397.3	6335.7	5585.9	5198.3	4882.4	4751.8	4844.5
17.5°	10817.9	10160.8	8943.3	7624.8	6373.7	5396.3	4768.7	4528.5	4414.8	4427.4	4389.5
20°	10464.1	9806.9	8180.9	6799.1	5459.5	4680.2	4322.1	4233.7	4250.5	4280.0	4267.4
22.5°	10211.3	9377.2	7629.0	5956.6	4718.1	4284.2	4136.8	4073.6	4128.3	4153.6	4132.6
25°	10017.5	9010.7	6959.2	5211.0	4288.4	4060.9	3993.5	3989.3	4073.6	4107.3	4086.2
27.5°	9840.6	8669.5	6293.6	4642.3	4002.0	3888.2	3867.2	3917.7	3972.5	4006.2	4035.7
30°	9735.3	8408.3	5670.1	4166.3	3858.7	3804.0	3766.1	3812.4	3841.9	3875.6	3858.7
32.5°	9836.4	8223.0	5067.7	3896.6	3740.8	3686.0	3736.6	3707.1	3757.6	3787.1	3740.8
35°	10152.3	8058.7	4638.1	3753.4	3606.0	3627.0	3635.5	3622.8	3643.9	3618.6	3673.4
37.5°	10464.1	7999.7	4242.1	3631.3	3542.8	3542.8	3534.4	3509.1	3551.2	3542.8	3568.1
40°	10860.1	8037.6	3905.1	3500.7	3483.8	3475.4	3441.7	3437.5	3420.6	3424.8	3433.3
42.5°	11205.5	8121.9	3711.3	3416.4	3429.0	3445.9	3382.7	3332.2	3353.2	3311.1	3311.1
45°	11572.0	8197.7	3538.6	3357.4	3344.8	3340.6	3290.0	3260.5	3243.7	3247.9	3285.8
47.5°	12149.1	8307.2	3408.0	3277.4	3285.8	3222.6	3210.0	3172.1	3188.9	3214.2	3218.4
50°	12557.7	8538.9	3306.9	3184.7	3214.2	3172.1	3096.3	3079.4	3079.4	3121.5	3113.1
52.5°	12844.2	8863.3	3210.0	3083.6	3096.3	3062.6	3037.3	2999.4	2974.1	3033.1	3062.6
55°	13720.4	9402.5	3184.7	2999.4	2995.2	2961.5	2915.1	2877.2	2864.6	2873.0	2932.0
57.5°	13636.2	9234.0	3104.7	2851.9	2843.5	2797.2	2750.8	2738.2	2734.0	2742.4	2759.2
60°	11070.7	6820.2	2771.9	2683.4	2670.8	2662.4	2616.0	2565.5	2540.2	2565.5	2544.4
62.5°	7325.7	4566.4	2443.3	2481.2	2489.6	2468.6	2392.8	2342.2	2350.6	2380.1	2333.8
65°	3597.6	2683.4	2215.8	2316.9	2325.4	2266.4	2194.8	2135.8	2106.3	2131.6	2110.5
67.5°	2055.7	2051.5	2030.5	2135.8	2131.6	2072.6	1958.9	1908.3	1857.8	1866.2	1853.5
70°	1744.0	1777.7	1819.8	1883.0	1878.8	1811.4	1676.6	1638.7	1567.1	1558.7	1537.6
72.5°	1373.3	1432.3	1525.0	1571.3	1533.4	1449.1	1360.7	1297.5	1234.3	1196.4	1209.0
75°	1019.4	1103.7	1154.3	1183.7	1124.8	1078.4	1006.8	931.0	855.2	821.5	808.8
77.5°	741.4	766.7	813.0	834.1	796.2	749.8	707.7	631.9	560.3	513.9	501.3
80°	518.1	535.0	568.7	568.7	568.7	547.6	492.9	417.0	370.7	328.6	320.2
82.5°	362.3	379.1	412.8	396.0	391.8	366.5	332.8	273.8	223.3	193.8	185.4
85°	126.4	139.0	168.5	202.2	214.8	210.6	189.6	151.7	118.0	96.9	88.5
87.5°	29.5	29.5	33.7	29.5	29.5	33.7	29.5	29.5	29.5	21.1	16.9
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)