

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: P528636

Luminaire Tested: **GALN-SA3D-727-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528636  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3D-727-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16860 lumens  
Efficiency: N/A  
Efficacy: 91.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

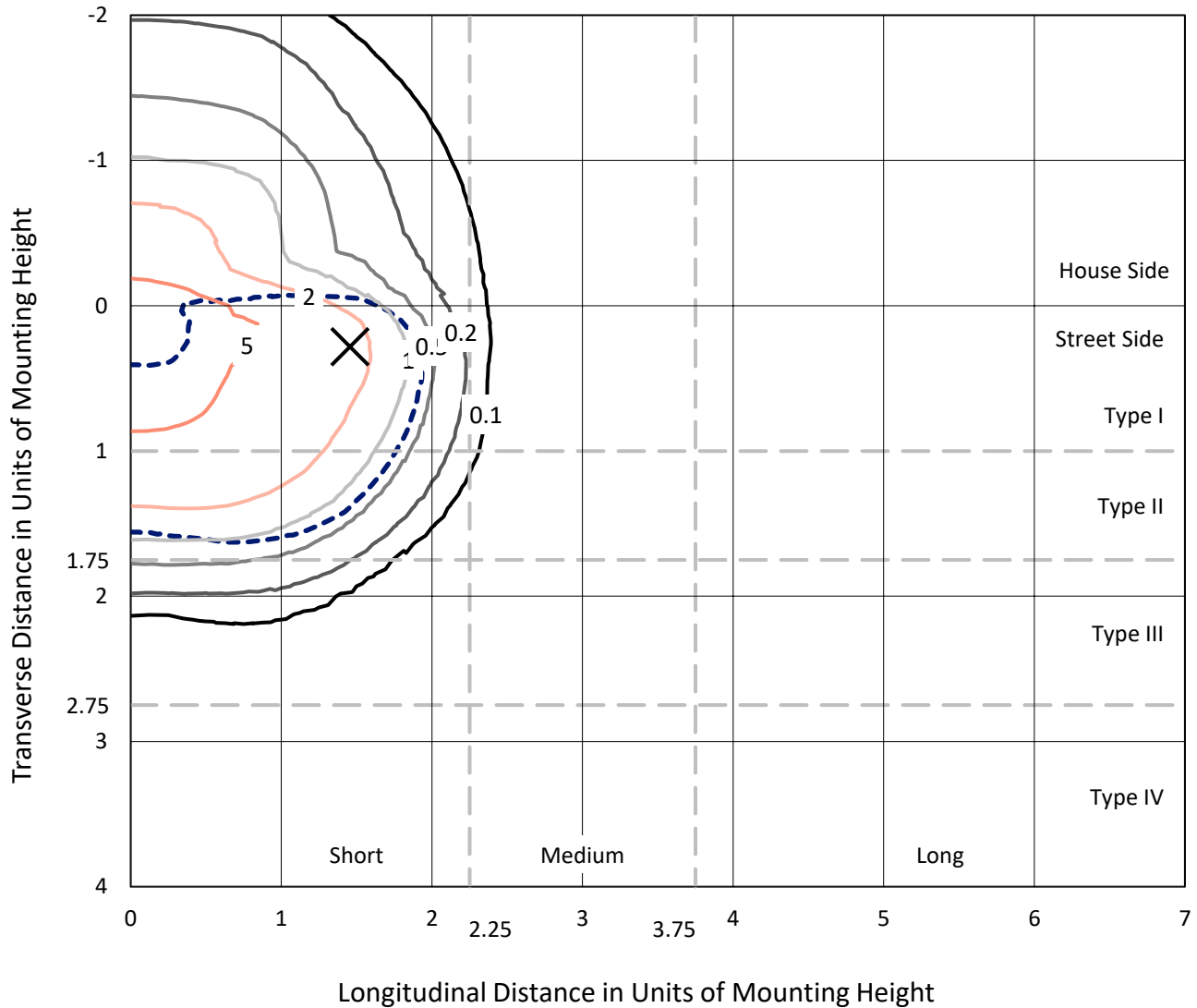
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

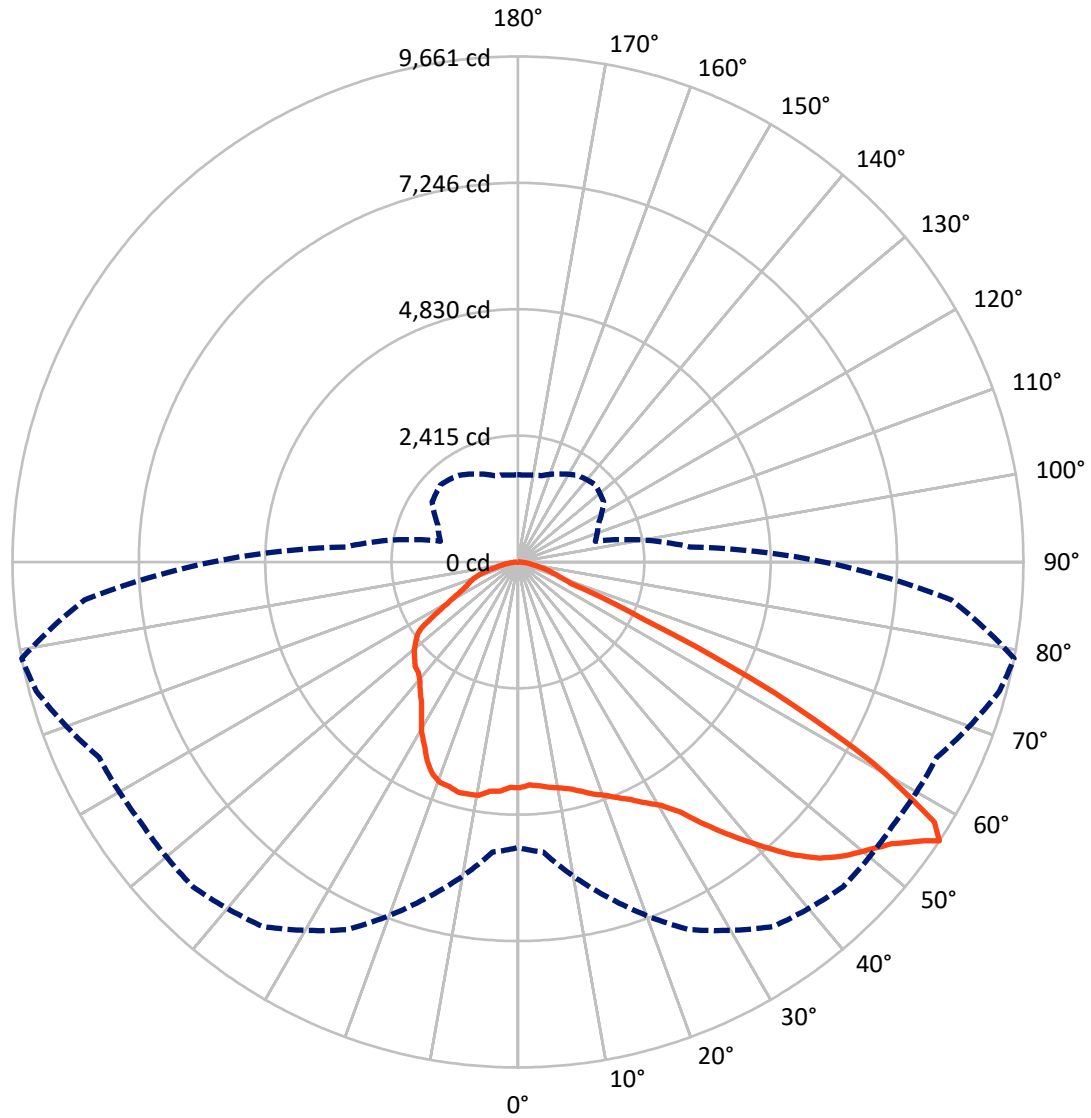
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4979.1	0.0	4979.1
	% Fixture	29.5	0.0	29.5
<b>Street Side</b>	Lumens	11880.9	0.0	11880.9
	% Fixture	70.5	0.0	70.5
<b>Total</b>	Lumens	16860.0	0.0	16860.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	392.2	2.3
10°-20°	1073.4	6.4
20°-30°	1836.3	10.9
30°-40°	2814.4	16.7
40°-50°	3803.6	22.6
50°-60°	4368.6	25.9
60°-70°	1991.3	11.8
70°-80°	491.0	2.9
80°-90°	89.2	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°	16860.0	100.0
0°-180°	16860.0	100.0

**Coefficient of Utilization**



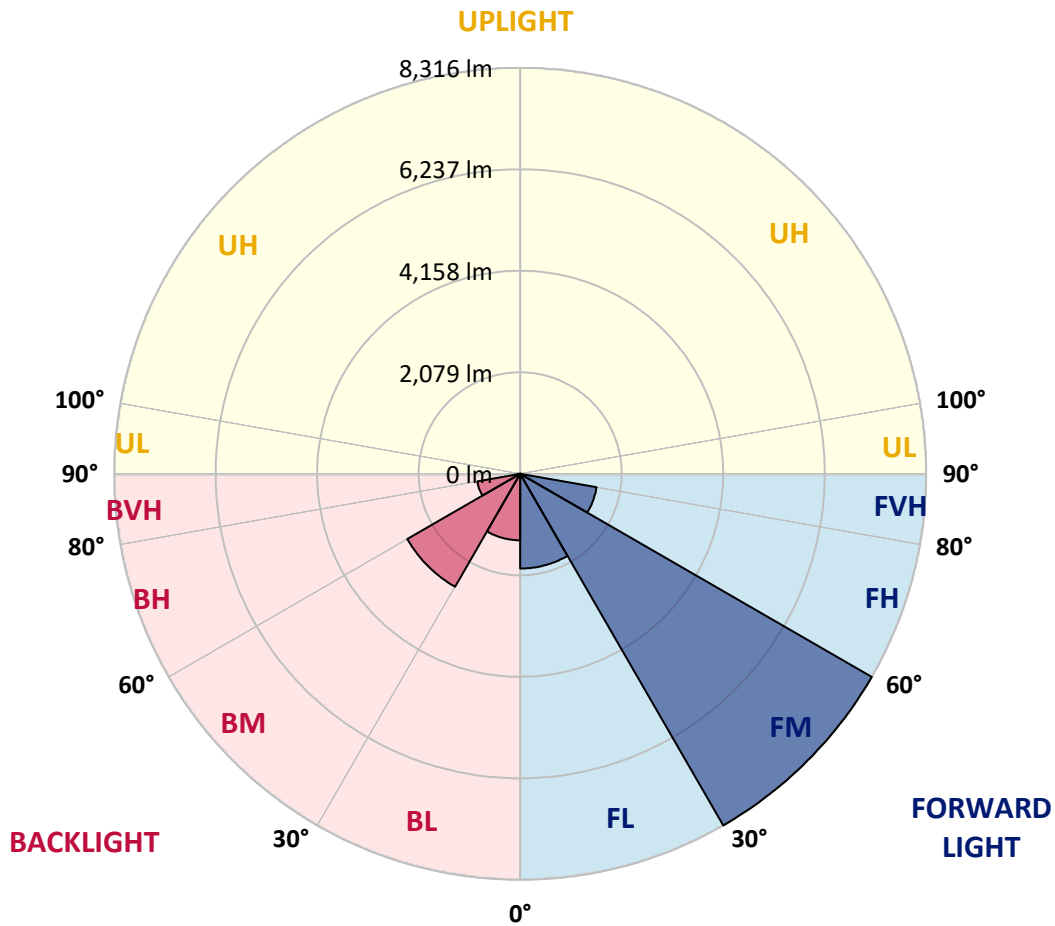
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1939.9	11.5			
FM (30°-60°)	8315.8	49.3			
FH (60°-80°)	1589.5	9.4			G1/1800
FVH (80°-90°)	35.6	0.2			G1/100
BL (0°-30°)	1362.0	8.1	B3/2500		
BM (30°-60°)	2670.7	15.8	B3/5000		
BH (60°-80°)	892.8	5.3	B2/1000		G2/1000
BVH (80°-90°)	53.6	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	4313.8	4313.8	4313.8	4313.8	4313.8	4313.8	4313.8	4313.8	4313.8	4313.8	4313.8
2.5°	4103.8	4093.3	4118.5	4137.4	4160.5	4189.9	4204.6	4213.0	4286.5	4267.6	4324.3
5°	4015.6	3988.3	4007.2	4021.9	4061.8	4097.5	4137.4	4200.4	4267.6	4297.0	4366.3
7.5°	3937.9	3923.2	3919.0	3929.5	3984.1	4030.3	4099.6	4192.0	4301.2	4349.5	4389.4
10°	3809.8	3788.8	3820.3	3889.6	3904.3	4000.9	4080.7	4213.0	4307.5	4391.5	4509.1
12.5°	3753.1	3732.1	3738.4	3778.3	3881.2	3973.6	4068.1	4217.2	4416.7	4450.3	4607.8
15°	3843.4	3822.4	3828.7	3818.2	3916.9	3965.2	4114.3	4301.2	4492.3	4549.0	4717.0
17.5°	4049.2	4051.3	4024.0	4000.9	3977.8	4080.7	4183.6	4351.6	4521.7	4664.5	4790.6
20°	4441.9	4372.6	4318.0	4187.8	4152.1	4196.2	4326.4	4488.1	4641.4	4759.0	4901.9
22.5°	4744.3	4750.6	4672.9	4458.7	4381.0	4399.9	4511.2	4643.5	4811.6	4895.6	5059.4
25°	5183.3	5139.2	5055.2	4885.1	4710.7	4725.4	4807.4	4927.1	4973.3	5032.1	5210.6
27.5°	5584.4	5597.0	5431.1	5271.5	5055.2	5013.2	5160.2	5181.2	5103.5	5214.8	5275.7
30°	5991.9	5981.4	5872.2	5685.2	5473.1	5481.5	5546.6	5443.7	5336.6	5397.5	5439.5
32.5°	6414.0	6294.3	6290.1	6122.1	5960.4	5882.7	5802.8	5853.3	5687.3	5699.9	5660.0
35°	6752.1	6768.9	6672.3	6552.6	6472.8	6336.3	6117.9	6208.2	6176.7	6162.0	5989.8
37.5°	6997.9	6932.8	6981.1	6941.2	6865.5	6695.4	6468.6	6554.7	6569.4	6640.8	6441.3
40°	7199.5	7172.2	7300.3	7321.3	7268.8	6901.3	6493.8	6750.0	6970.6	7126.0	6888.6
42.5°	7296.1	7354.9	7489.3	7651.0	7533.4	7140.7	6624.0	6899.1	7390.6	7636.3	7312.9
45°	7426.3	7350.7	7550.2	7846.3	7848.4	7342.3	6750.0	7100.8	7718.2	8075.3	7602.7
47.5°	7294.0	7331.8	7537.6	7913.5	8010.2	7554.4	7090.3	7386.4	8079.5	8396.6	7871.5
50°	6997.9	7073.5	7449.4	7840.0	8132.0	7779.1	7480.9	7695.1	8413.4	8654.9	7915.6
52.5°	6689.1	6731.1	7319.2	7896.7	8186.6	8069.0	8003.9	8121.5	8820.8	8946.8	7970.3
55°	5849.1	6048.6	6888.6	7871.5	8453.3	8591.9	8541.5	8713.7	9282.9	9408.9	8268.5
56°	5460.5	5565.5	6630.3	7753.9	8505.8	8783.0	8757.8	8835.5	9528.6	9660.9	8314.7
57.5°	4742.2	4750.6	5653.7	7233.1	8308.4	8839.7	8814.5	8875.4	9480.3	9390.0	7909.3
60°	2967.6	3097.8	3847.6	5563.4	7065.1	8201.3	8344.1	7854.7	7993.4	7802.2	6153.6
62.5°	1537.3	1518.4	2016.2	3253.2	4689.7	5872.2	6004.5	5981.4	5767.1	5487.8	4019.8
65°	766.6	770.8	1054.3	1610.9	2402.6	3074.7	3444.3	3484.2	2915.1	2682.0	1907.0
67.5°	556.6	577.6	758.2	985.0	1132.0	1266.4	1552.0	1522.6	1153.0	1096.3	1016.5
70°	432.6	451.5	615.4	751.9	682.6	682.6	743.5	768.7	821.2	844.3	871.6
72.5°	315.0	329.7	470.4	518.7	447.3	480.9	556.6	615.4	670.0	678.4	709.9
75°	216.3	228.9	308.7	285.6	268.8	331.8	407.4	462.0	501.9	522.9	541.9
77.5°	140.7	144.9	176.4	149.1	172.2	214.2	264.6	310.8	350.7	367.5	371.7
80°	63.0	69.3	75.6	94.5	119.7	153.3	189.0	226.8	252.0	258.3	270.9
82.5°	35.7	35.7	46.2	67.2	88.2	111.3	136.5	163.8	193.2	199.5	197.4
85°	18.9	18.9	27.3	39.9	54.6	65.1	63.0	65.1	69.3	79.8	77.7
87.5°	6.3	6.3	8.4	8.4	10.5	12.6	10.5	14.7	18.9	18.9	18.9
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°	4313.8	4313.8	4313.8	4313.8	4313.8	4313.8	4313.8	4313.8	4313.8	4313.8	4313.8
2.5°	4307.5	4326.4	4301.2	4355.8	4355.8	4345.3	4292.8	4309.6	4322.2	4322.2	4332.7
5°	4389.4	4383.1	4399.9	4334.8	4294.9	4280.2	4194.1	4152.1	4116.4	4114.3	4082.8
7.5°	4435.6	4418.8	4412.5	4364.2	4187.8	4080.7	3895.9	3788.8	3765.7	3683.7	3715.2
10°	4509.1	4540.6	4509.1	4246.6	4000.9	3755.2	3574.5	3408.6	3343.5	3291.0	3259.5
12.5°	4660.3	4645.6	4462.9	4108.0	3763.6	3471.6	3202.8	3028.5	2963.4	2917.2	2913.0
15°	4788.5	4714.9	4435.6	3889.6	3393.9	3083.1	2862.6	2738.7	2709.3	2713.5	2732.4
17.5°	4832.6	4782.2	4292.8	3662.7	3118.8	2753.4	2650.4	2631.5	2658.9	2690.4	2698.8
20°	4901.9	4822.1	4234.0	3354.0	2778.6	2547.5	2541.2	2608.4	2658.9	2705.1	2711.4
22.5°	5046.8	4845.2	4042.9	3062.1	2545.4	2486.6	2547.5	2604.2	2682.0	2719.8	2686.2
25°	5088.8	4794.8	3774.1	2711.4	2398.4	2448.8	2513.9	2591.6	2646.2	2667.3	2682.0
27.5°	5124.5	4717.0	3410.7	2478.2	2352.2	2446.7	2513.9	2579.0	2608.4	2627.3	2644.1
30°	5225.3	4693.9	3095.7	2322.8	2322.8	2404.7	2490.8	2507.6	2547.5	2570.6	2600.0
32.5°	5275.7	4534.3	2772.3	2224.1	2293.4	2425.7	2432.0	2463.5	2465.6	2484.5	2453.0
35°	5408.0	4420.9	2471.9	2152.7	2306.0	2404.7	2436.2	2417.3	2314.4	2264.0	2274.5
37.5°	5504.6	4364.2	2255.6	2144.3	2308.1	2427.8	2444.6	2301.8	2194.7	2110.7	2131.7
40°	5765.0	4223.5	2091.8	2129.6	2327.0	2453.0	2406.8	2251.4	2058.2	1972.1	1957.4
42.5°	5964.6	4122.7	1988.9	2112.8	2341.7	2488.7	2387.9	2150.6	1953.2	1873.4	1894.4
45°	6195.6	4099.6	1934.3	2117.0	2366.9	2507.6	2364.8	2072.9	1862.9	1831.4	1825.1
47.5°	6277.5	3933.7	1875.5	2081.3	2360.6	2501.3	2287.1	2014.1	1829.3	1833.5	1850.3
50°	6141.0	3763.6	1831.4	2007.8	2318.6	2444.6	2165.3	1936.4	1810.4	1862.9	1892.3
52.5°	5966.7	3589.2	1741.1	1909.1	2232.5	2356.4	2108.6	1932.2	1791.5	1774.7	1781.0
55°	6019.2	3446.4	1615.1	1774.7	2093.9	2192.6	2045.6	1892.3	1745.3	1682.3	1703.3
56°	5849.1	3299.4	1533.1	1690.7	1999.4	2087.6	2014.1	1856.6	1707.5	1665.5	1665.5
57.5°	5368.1	2805.9	1426.0	1556.2	1799.9	1904.9	1953.2	1835.6	1665.5	1591.9	1594.1
60°	3958.9	1995.2	1279.0	1371.4	1491.1	1575.1	1799.9	1776.8	1560.4	1510.0	1491.1
62.5°	2440.4	1457.5	1174.0	1209.7	1270.6	1339.9	1570.9	1608.8	1449.1	1394.5	1381.9
65°	1367.2	1115.2	1094.2	1108.9	1138.3	1174.0	1304.2	1388.2	1279.0	1195.0	1190.8
67.5°	999.7	997.6	1014.4	1027.0	1039.6	1039.6	1071.1	1104.7	1090.0	1022.8	1016.5
70°	888.4	894.7	907.3	909.4	913.6	898.9	873.7	863.2	880.0	838.0	829.6
72.5°	733.0	754.0	768.7	770.8	747.7	728.8	695.2	659.5	646.9	638.5	636.4
75°	562.9	577.6	583.9	581.8	573.4	546.1	506.1	470.4	447.3	422.1	434.7
77.5°	380.1	401.1	411.6	411.6	399.0	357.0	338.1	310.8	287.7	260.4	264.6
80°	266.7	281.4	298.2	296.1	275.1	254.1	226.8	201.6	182.7	161.7	159.6
82.5°	199.5	207.9	216.3	212.1	197.4	176.4	157.5	134.4	113.4	98.7	98.7
85°	71.4	77.7	94.5	98.7	107.1	107.1	90.3	75.6	60.9	50.4	50.4
87.5°	21.0	21.0	23.1	23.1	21.0	23.1	18.9	21.0	23.1	14.7	14.7
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)