

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: P528792

Luminaire Tested: **GALN-SA3D-827-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528792
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-827-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 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: 14820 lumens
Efficiency: N/A
Efficacy: 80.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

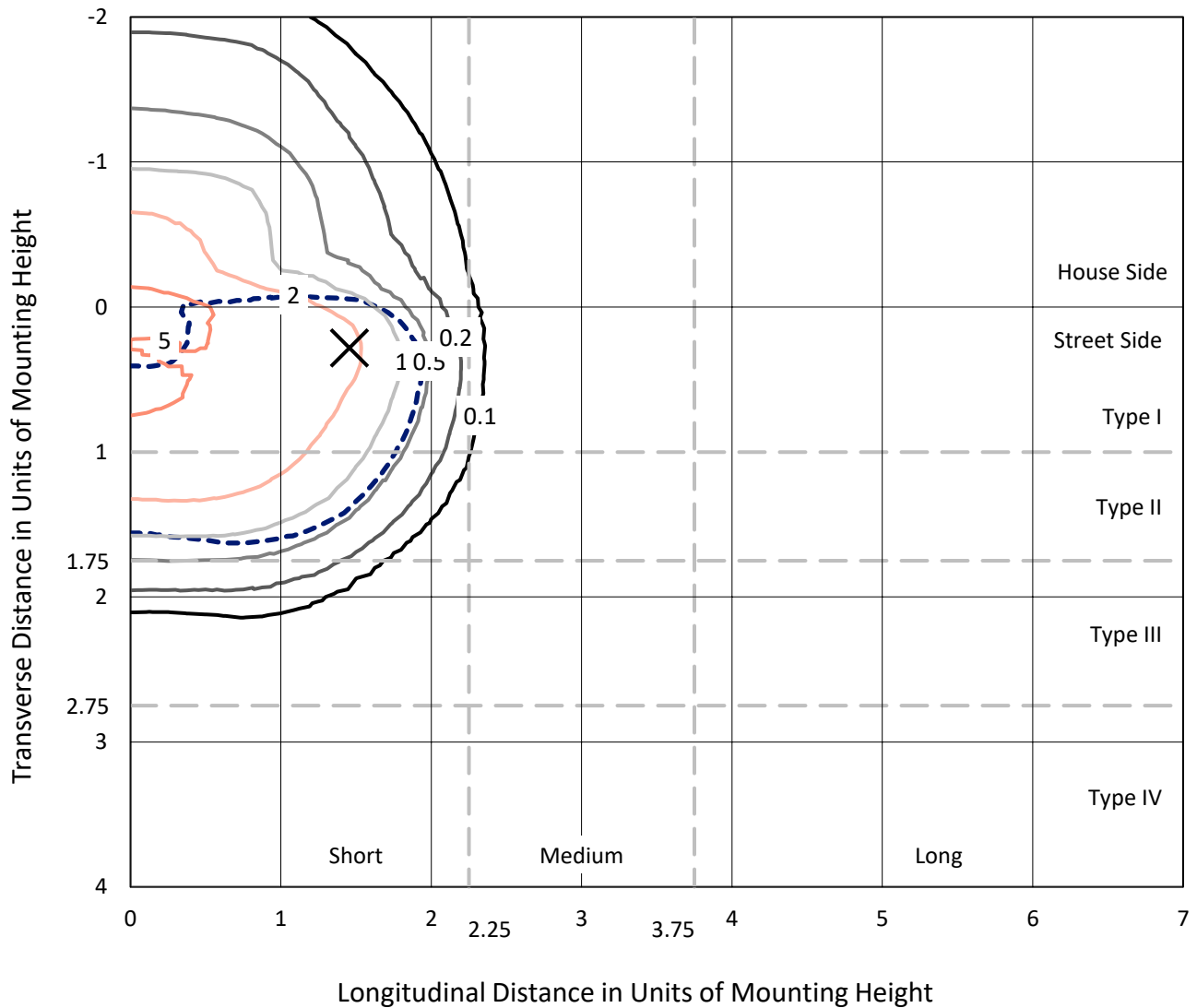
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

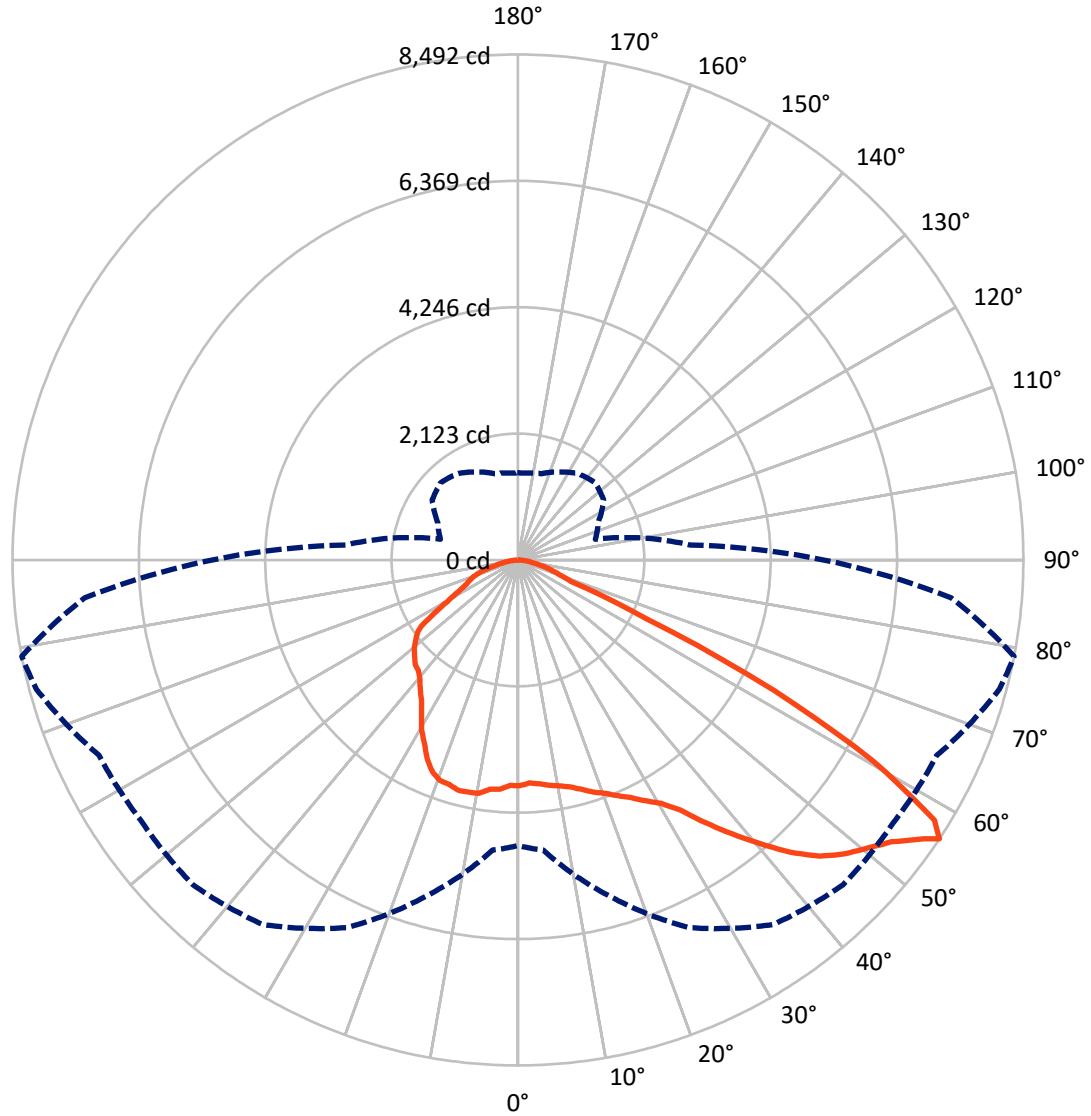
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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
House Side	Lumens	4376.7	0.0	4376.7
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	10443.3	0.0	10443.3
	% Fixture	70.5	0.0	70.5
Total	Lumens	14820.0	0.0	14820.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.8	2.3
10°-20°	943.5	6.4
20°-30°	1614.1	10.9
30°-40°	2473.8	16.7
40°-50°	3343.4	22.6
50°-60°	3840.0	25.9
60°-70°	1750.4	11.8
70°-80°	431.6	2.9
80°-90°	78.4	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°	14820.0	100.0
0°-180°	14820.0	100.0

Coefficient of Utilization

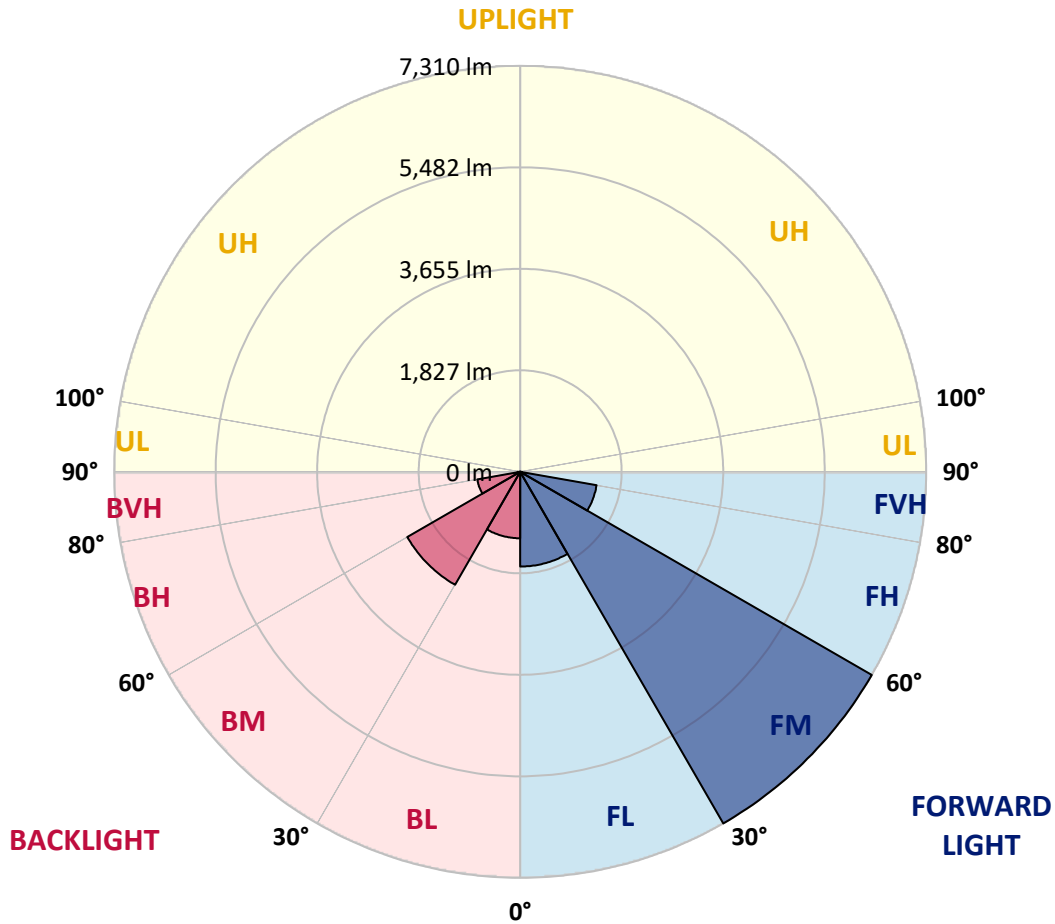


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1705.2	11.5			
FM (30°-60°)	7309.7	49.3			
FH (60°-80°)	1397.2	9.4			G1/1800
FVH (80°-90°)	31.3	0.2			G1/100
BL (0°-30°)	1197.2	8.1	B3/2500		
BM (30°-60°)	2347.6	15.8	B2/2500		
BH (60°-80°)	784.8	5.3	B2/1000		G2/1000
BVH (80°-90°)	47.1	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°	3791.9	3791.9	3791.9	3791.9	3791.9	3791.9	3791.9	3791.9	3791.9	3791.9	3791.9
2.5°	3607.2	3598.0	3620.2	3636.8	3657.1	3682.9	3695.9	3703.2	3767.9	3751.2	3801.1
5°	3529.7	3505.7	3522.3	3535.2	3570.3	3601.7	3636.8	3692.2	3751.2	3777.1	3838.0
7.5°	3461.4	3448.5	3444.8	3454.0	3502.0	3542.6	3603.6	3684.8	3780.8	3823.2	3858.3
10°	3348.8	3330.3	3358.0	3418.9	3431.9	3516.8	3586.9	3703.2	3786.3	3860.2	3963.5
12.5°	3298.9	3280.5	3286.0	3321.1	3411.6	3492.8	3575.9	3706.9	3882.3	3911.8	4050.3
15°	3378.3	3359.9	3365.4	3356.2	3442.9	3485.4	3616.5	3780.8	3948.8	3998.6	4146.3
17.5°	3559.2	3561.1	3537.1	3516.8	3496.5	3586.9	3677.4	3825.1	3974.6	4100.1	4210.9
20°	3904.5	3843.5	3795.5	3681.1	3649.7	3688.5	3802.9	3945.1	4079.8	4183.2	4308.8
22.5°	4170.3	4175.8	4107.5	3919.2	3850.9	3867.5	3965.4	4081.7	4229.4	4303.2	4447.2
25°	4556.1	4517.4	4443.5	4294.0	4140.8	4153.7	4225.7	4330.9	4371.5	4423.2	4580.1
27.5°	4908.7	4919.8	4774.0	4633.7	4443.5	4406.6	4535.8	4554.3	4486.0	4583.8	4637.4
30°	5266.9	5257.6	5161.6	4997.3	4810.9	4818.3	4875.5	4785.0	4690.9	4744.4	4781.4
32.5°	5637.9	5532.7	5529.0	5381.3	5239.2	5170.9	5100.7	5145.0	4999.2	5010.3	4975.2
35°	5935.2	5949.9	5865.0	5759.8	5689.6	5569.6	5377.6	5457.0	5429.3	5416.4	5265.0
37.5°	6151.1	6093.9	6136.4	6101.3	6034.8	5885.3	5685.9	5761.6	5774.5	5837.3	5661.9
40°	6328.4	6304.4	6417.0	6435.4	6389.3	6066.2	5708.1	5933.3	6127.1	6263.8	6055.1
42.5°	6413.3	6465.0	6583.1	6725.3	6621.9	6276.7	5822.5	6064.4	6496.4	6712.4	6428.1
45°	6527.7	6461.3	6636.7	6897.0	6898.8	6453.9	5933.3	6241.6	6784.3	7098.2	6682.8
47.5°	6411.4	6444.7	6625.6	6956.0	7041.0	6640.4	6232.4	6492.7	7101.9	7380.6	6919.1
50°	6151.1	6217.6	6548.1	6891.4	7148.0	6837.9	6575.7	6764.0	7395.4	7607.7	6957.9
52.5°	5879.8	5916.7	6433.6	6941.3	7196.0	7092.6	7035.4	7138.8	7753.5	7864.3	7005.9
55°	5141.3	5316.7	6055.1	6919.1	7430.5	7552.3	7508.0	7659.4	8159.7	8270.4	7268.0
56°	4799.8	4892.1	5828.1	6815.7	7476.6	7720.3	7698.2	7766.5	8375.7	8492.0	7308.6
57.5°	4168.5	4175.8	4969.7	6357.9	7303.1	7770.2	7748.0	7801.5	8333.2	8253.8	6952.3
60°	2608.5	2723.0	3382.0	4890.3	6210.2	7208.9	7334.5	6904.3	7026.2	6858.2	5409.0
62.5°	1351.3	1334.7	1772.2	2859.6	4122.3	5161.6	5277.9	5257.6	5069.3	4823.8	3533.4
65°	673.8	677.5	926.7	1415.9	2111.9	2702.7	3027.6	3062.6	2562.4	2357.4	1676.2
67.5°	489.2	507.7	666.4	865.8	995.0	1113.2	1364.3	1338.4	1013.5	963.7	893.5
70°	380.3	396.9	540.9	660.9	600.0	600.0	653.5	675.7	721.8	742.1	766.1
72.5°	276.9	289.8	413.5	456.0	393.2	422.8	489.2	540.9	588.9	596.3	624.0
75°	190.1	201.2	271.4	251.1	236.3	291.7	358.1	406.1	441.2	459.7	476.3
77.5°	123.7	127.4	155.1	131.1	151.4	188.3	232.6	273.2	308.3	323.1	326.8
80°	55.4	60.9	66.5	83.1	105.2	134.8	166.1	199.4	221.5	227.1	238.1
82.5°	31.4	31.4	40.6	59.1	77.5	97.8	120.0	144.0	169.8	175.4	173.5
85°	16.6	16.6	24.0	35.1	48.0	57.2	55.4	57.2	60.9	70.2	68.3
87.5°	5.5	5.5	7.4	7.4	9.2	11.1	9.2	12.9	16.6	16.6	16.6
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°	3791.9	3791.9	3791.9	3791.9	3791.9	3791.9	3791.9	3791.9	3791.9	3791.9	3791.9
2.5°	3786.3	3802.9	3780.8	3828.8	3828.8	3819.5	3773.4	3788.2	3799.2	3799.2	3808.5
5°	3858.3	3852.8	3867.5	3810.3	3775.2	3762.3	3686.6	3649.7	3618.3	3616.5	3588.8
7.5°	3898.9	3884.2	3878.6	3836.2	3681.1	3586.9	3424.5	3330.3	3310.0	3238.0	3265.7
10°	3963.5	3991.2	3963.5	3732.8	3516.8	3300.8	3142.0	2996.2	2939.0	2892.8	2865.1
12.5°	4096.5	4083.5	3922.9	3610.9	3308.2	3051.6	2815.3	2662.0	2604.8	2564.2	2560.5
15°	4209.1	4144.5	3898.9	3418.9	2983.3	2710.0	2516.2	2407.3	2381.4	2385.1	2401.8
17.5°	4247.8	4203.5	3773.4	3219.6	2741.4	2420.2	2329.8	2313.1	2337.1	2364.8	2372.2
20°	4308.8	4238.6	3721.7	2948.2	2442.4	2239.3	2233.8	2292.8	2337.1	2377.8	2383.3
22.5°	4436.1	4258.9	3553.7	2691.6	2237.5	2185.8	2239.3	2289.1	2357.4	2390.7	2361.1
25°	4473.1	4214.6	3317.4	2383.3	2108.2	2152.5	2209.8	2278.1	2326.1	2344.5	2357.4
27.5°	4504.4	4146.3	2998.0	2178.4	2067.6	2150.7	2209.8	2267.0	2292.8	2309.4	2324.2
30°	4593.1	4126.0	2721.1	2041.8	2041.8	2113.8	2189.5	2204.2	2239.3	2259.6	2285.4
32.5°	4637.4	3985.7	2436.8	1955.0	2015.9	2132.2	2137.8	2165.5	2167.3	2183.9	2156.2
35°	4753.7	3886.0	2172.8	1892.2	2027.0	2113.8	2141.5	2124.8	2034.4	1990.1	1999.3
37.5°	4838.6	3836.2	1982.7	1884.8	2028.8	2134.1	2148.8	2023.3	1929.2	1855.3	1873.8
40°	5067.5	3712.5	1838.7	1871.9	2045.5	2156.2	2115.6	1979.0	1809.2	1733.5	1720.5
42.5°	5242.9	3623.9	1748.2	1857.2	2058.4	2187.6	2099.0	1890.4	1716.9	1646.7	1665.2
45°	5445.9	3603.6	1700.2	1860.9	2080.5	2204.2	2078.7	1822.1	1637.5	1609.8	1604.2
47.5°	5517.9	3457.7	1648.6	1829.5	2075.0	2198.7	2010.4	1770.4	1607.9	1611.6	1626.4
50°	5397.9	3308.2	1609.8	1764.9	2038.1	2148.8	1903.3	1702.1	1591.3	1637.5	1663.3
52.5°	5244.7	3155.0	1530.4	1678.1	1962.4	2071.3	1853.5	1698.4	1574.7	1559.9	1565.5
55°	5290.9	3029.4	1419.6	1559.9	1840.5	1927.3	1798.1	1663.3	1534.1	1478.7	1497.2
56°	5141.3	2900.2	1347.6	1486.1	1757.5	1835.0	1770.4	1631.9	1500.9	1463.9	1463.9
57.5°	4718.6	2466.4	1253.5	1367.9	1582.1	1674.4	1716.9	1613.5	1463.9	1399.3	1401.2
60°	3479.9	1753.8	1124.3	1205.5	1310.7	1384.6	1582.1	1561.8	1371.6	1327.3	1310.7
62.5°	2145.1	1281.2	1032.0	1063.3	1116.9	1177.8	1380.9	1414.1	1273.8	1225.8	1214.7
65°	1201.8	980.3	961.8	974.7	1000.6	1032.0	1146.4	1220.3	1124.3	1050.4	1046.7
67.5°	878.7	876.9	891.7	902.7	913.8	913.8	941.5	971.0	958.1	899.0	893.5
70°	780.9	786.4	797.5	799.4	803.0	790.1	768.0	758.7	773.5	736.6	729.2
72.5°	644.3	662.7	675.7	677.5	657.2	640.6	611.1	579.7	568.6	561.2	559.4
75°	494.7	507.7	513.2	511.4	504.0	480.0	444.9	413.5	393.2	371.1	382.1
77.5°	334.1	352.6	361.8	361.8	350.8	313.8	297.2	273.2	252.9	228.9	232.6
80°	234.5	247.4	262.1	260.3	241.8	223.4	199.4	177.2	160.6	142.1	140.3
82.5°	175.4	182.8	190.1	186.5	173.5	155.1	138.5	118.1	99.7	86.8	86.8
85°	62.8	68.3	83.1	86.8	94.2	94.2	79.4	66.5	53.5	44.3	44.3
87.5°	18.5	18.5	20.3	20.3	18.5	20.3	16.6	18.5	20.3	12.9	12.9
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)