

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: P528622

Luminaire Tested: **GALN-SA3D-727-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528622
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-SA3D-727-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 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: 16370 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

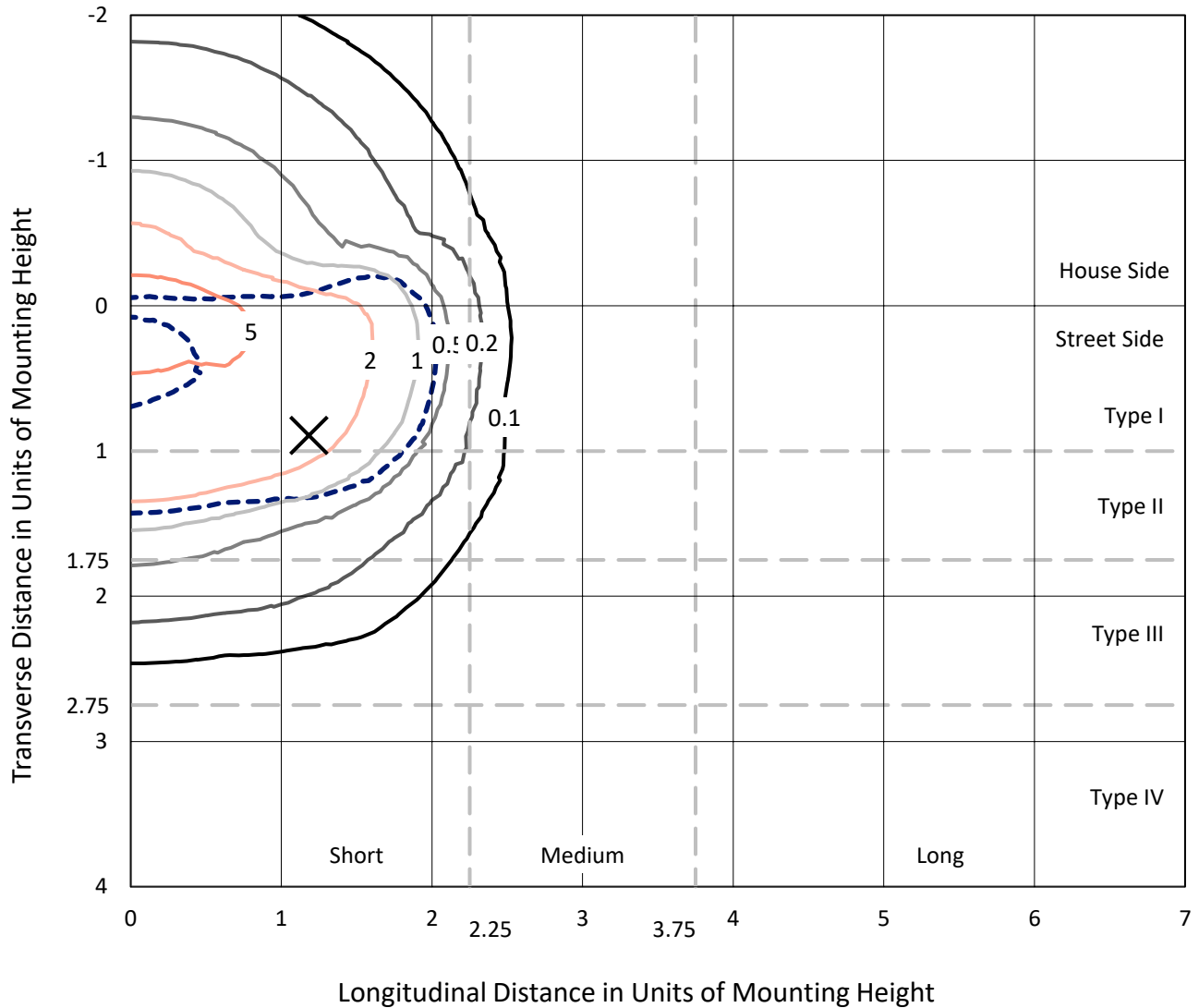
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

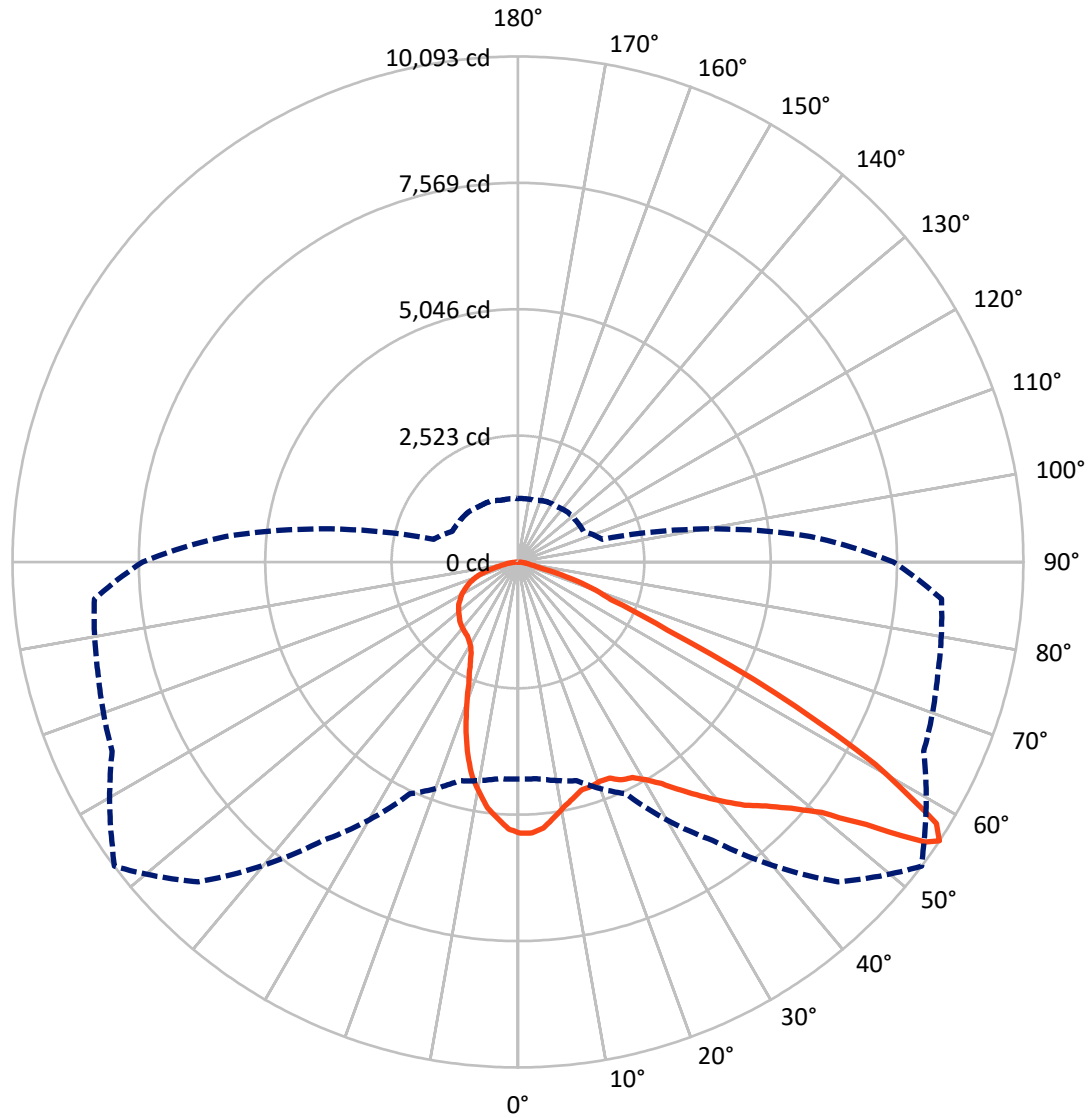
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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	4777.2	0.0	4777.2
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	11592.9	0.0	11592.9
	% Fixture	70.8	0.0	70.8
Total	Lumens	16370.0	0.0	16370.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	479.4	2.9
10°-20°	1197.5	7.3
20°-30°	1765.8	10.8
30°-40°	2523.0	15.4
40°-50°	3472.5	21.2
50°-60°	4103.6	25.1
60°-70°	2186.9	13.4
70°-80°	554.8	3.4
80°-90°	86.5	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°	16370.0	100.0
0°-180°	16370.0	100.0

Coefficient of Utilization



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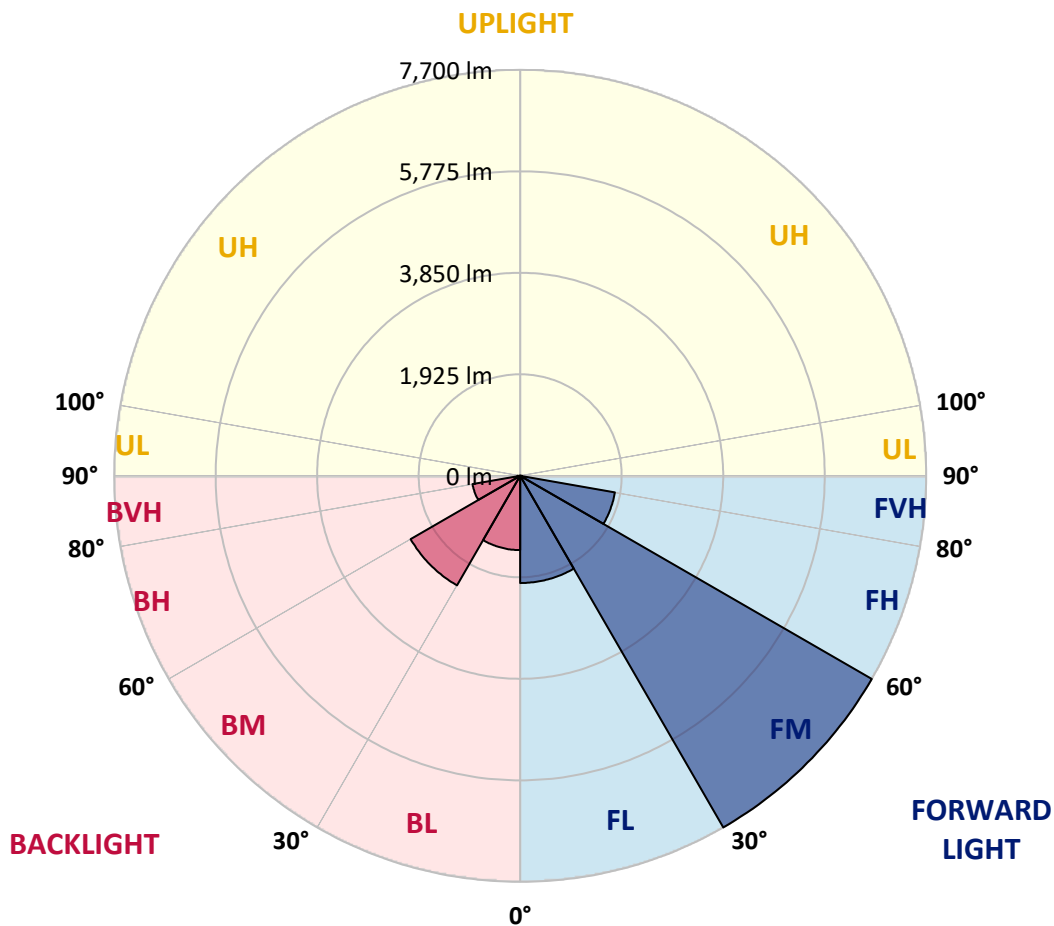
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2033.7	12.4			
FM (30°-60°)	7700.1	47.0			
FH (60°-80°)	1824.2	11.1			G2/5000
FVH (80°-90°)	34.8	0.2			G1/100
BL (0°-30°)	1409.0	8.6	B3/2500		
BM (30°-60°)	2398.9	14.7	B2/2500		
BH (60°-80°)	917.5	5.6	B2/1000		G2/1000
BVH (80°-90°)	51.7	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°	53°	55°	65°	75°	85°
0°	5415.8	5415.8	5415.8	5415.8	5415.8	5415.8	5415.8	5415.8	5415.8	5415.8	5415.8
2.5°	5348.6	5302.4	5329.7	5319.2	5405.3	5430.5	5417.9	5428.4	5476.7	5453.6	5405.3
5°	4997.9	5063.0	5075.6	5107.1	5157.5	5256.2	5333.9	5354.9	5378.0	5485.1	5474.6
7.5°	4678.7	4722.8	4699.7	4792.1	4901.3	5060.9	5155.4	5172.2	5384.3	5443.1	5487.2
10°	4477.2	4433.1	4538.1	4563.3	4687.1	4869.8	4983.2	5052.5	5245.7	5478.8	5506.1
12.5°	4290.3	4275.6	4338.6	4410.0	4548.6	4737.5	4853.0	4880.3	5178.5	5424.2	5552.3
15°	4151.7	4134.9	4197.9	4250.4	4412.1	4580.1	4727.0	4804.7	5105.0	5392.7	5512.4
17.5°	4042.5	4040.4	4076.1	4170.6	4336.5	4477.2	4714.4	4718.6	5067.2	5441.0	5546.0
20°	4036.2	4034.1	4040.4	4145.4	4296.6	4468.8	4674.5	4712.3	5067.2	5407.4	5548.1
22.5°	4088.7	4055.1	4092.9	4160.1	4269.3	4483.5	4689.2	4773.2	5189.0	5573.3	5642.6
25°	4172.7	4181.1	4202.1	4225.2	4288.2	4517.1	4819.4	4888.7	5331.8	5716.1	5772.8
27.5°	4326.0	4321.8	4330.2	4342.8	4397.4	4548.6	4871.9	5050.4	5630.0	5970.2	5913.5
30°	4550.7	4536.0	4569.6	4613.6	4563.3	4649.3	5046.2	5180.6	5907.2	6226.4	6071.0
32.5°	4754.3	4808.9	4871.9	4890.8	4829.9	4846.7	5277.2	5413.7	6138.2	6541.4	6264.2
35°	5008.4	5052.5	5136.5	5195.3	5184.8	5134.4	5592.2	5772.8	6472.1	6772.4	6467.9
37.5°	5256.2	5308.7	5447.3	5621.6	5525.0	5501.9	5928.2	6077.3	6575.0	6896.3	6617.0
40°	5655.2	5653.1	5892.5	5982.8	6068.9	6029.0	6276.8	6327.2	6629.6	6869.0	6621.2
42.5°	6123.5	6094.1	6337.7	6478.4	6589.7	6593.9	6640.1	6623.3	6654.8	6730.4	6577.1
45°	6568.7	6631.7	6877.4	7129.4	7240.7	7253.3	6946.7	6915.2	6698.9	6690.5	6493.1
47.5°	7112.6	7127.3	7328.9	7660.7	7919.0	7830.8	7343.6	7274.3	6892.1	6957.2	6633.8
50°	7144.1	7253.3	7433.9	7824.5	8618.3	8595.2	7858.1	7727.9	7202.9	7335.2	7026.5
52.5°	6484.7	6459.5	6673.7	7312.1	8565.8	9355.4	8710.7	8399.9	7870.7	7769.9	7662.8
55°	4941.2	5000.0	5189.0	5833.7	7438.1	9365.9	9872.0	9617.9	8584.7	8412.5	8288.6
56°	4334.4	4342.8	4521.3	5109.2	6787.1	9032.0	10092.5	9886.7	8939.6	8677.1	8488.1
57.5°	3593.1	3544.8	3637.2	3958.5	5728.7	8326.4	9851.0	10052.6	9355.4	8962.7	8700.2
60°	2828.7	2818.2	2780.4	2839.2	3620.4	6272.6	8200.4	8654.0	9313.4	8693.9	8332.7
62.5°	2310.0	2257.5	2333.1	2417.1	2515.8	3891.3	5762.3	6029.0	7394.0	6940.4	6260.0
65°	1791.3	1766.1	1860.6	2133.6	2192.4	2471.7	3282.3	3488.1	4365.9	4288.2	3775.8
67.5°	1232.7	1236.9	1318.8	1734.6	2032.8	2007.6	2009.7	2116.8	2278.5	1692.6	1474.2
70°	781.2	779.1	823.2	1117.2	1635.9	1652.7	1568.7	1537.2	1457.4	882.0	934.5
72.5°	501.9	487.2	510.3	617.4	846.3	978.6	1008.0	1026.9	844.2	693.0	751.8
75°	283.5	268.8	260.4	287.7	333.9	386.4	424.2	436.8	489.3	525.0	556.5
77.5°	86.1	77.7	94.5	126.0	165.9	222.6	270.9	279.3	329.7	371.7	403.2
80°	37.8	42.0	58.8	84.0	117.6	157.5	191.1	203.7	237.3	268.8	277.2
82.5°	23.1	25.2	39.9	56.7	81.9	111.3	136.5	140.7	174.3	199.5	205.8
85°	8.4	10.5	21.0	33.6	52.5	71.4	71.4	77.7	71.4	71.4	77.7
87.5°	0.0	0.0	2.1	4.2	4.2	6.3	8.4	8.4	10.5	12.6	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5415.8	5415.8	5415.8	5415.8	5415.8	5415.8	5415.8	5415.8	5415.8	5415.8	5415.8
2.5°	5430.5	5420.0	5403.2	5342.3	5336.0	5317.1	5212.1	5195.3	5212.1	5161.7	5165.9
5°	5420.0	5451.5	5325.5	5264.6	5151.2	5069.3	4974.8	4926.5	4840.4	4785.8	4846.7
7.5°	5466.2	5453.6	5296.1	5163.8	4993.7	4785.8	4619.9	4525.5	4374.3	4332.3	4363.8
10°	5449.4	5382.2	5197.4	5023.1	4701.8	4519.2	4250.4	3990.0	3847.2	3773.7	3763.2
12.5°	5426.3	5407.4	5098.7	4798.4	4460.4	4076.1	3698.1	3452.4	3219.3	3118.5	3133.2
15°	5453.6	5294.0	4913.9	4533.9	4084.5	3580.5	3173.1	2856.0	2694.3	2629.2	2629.2
17.5°	5441.0	5239.4	4825.7	4237.8	3668.7	3072.3	2625.0	2433.9	2366.7	2366.7	2385.6
20°	5447.3	5275.1	4647.2	3941.7	3177.3	2587.2	2261.7	2192.4	2221.8	2232.3	2242.8
22.5°	5483.0	5157.5	4473.0	3616.2	2721.6	2213.4	2053.8	2055.9	2108.4	2165.1	2154.6
25°	5527.1	5111.3	4260.9	3292.8	2373.0	2030.7	1980.3	1974.0	2013.9	2043.3	2047.5
27.5°	5489.3	5031.5	4044.6	2889.6	2087.4	1908.9	1898.4	1902.6	1915.2	1974.0	1955.1
30°	5613.2	5054.6	3773.7	2551.5	1929.9	1869.0	1856.4	1850.1	1869.0	1885.8	1871.1
32.5°	5766.5	4972.7	3572.1	2226.0	1852.2	1839.6	1814.4	1806.0	1816.5	1799.7	1808.1
35°	5833.7	4958.0	3309.6	1992.9	1791.3	1780.8	1766.1	1764.0	1766.1	1751.4	1738.8
37.5°	5871.5	5027.3	3009.3	1885.8	1753.5	1764.0	1730.4	1726.2	1688.4	1696.8	1703.1
40°	5936.6	4920.2	2765.7	1782.9	1730.4	1709.4	1680.0	1673.7	1648.5	1633.8	1648.5
42.5°	5842.1	4888.7	2526.3	1738.8	1696.8	1673.7	1652.7	1617.0	1608.6	1596.0	1587.6
45°	5766.5	4708.1	2312.1	1684.2	1656.9	1644.3	1604.4	1566.6	1535.1	1547.7	1528.8
47.5°	5823.2	4645.1	2100.0	1638.0	1602.3	1587.6	1547.7	1518.3	1486.8	1472.1	1467.9
50°	6050.0	4762.7	1921.5	1604.4	1556.1	1547.7	1495.2	1461.6	1432.2	1421.7	1425.9
52.5°	6591.8	5084.0	1799.7	1535.1	1512.0	1474.2	1444.8	1402.8	1383.9	1350.3	1371.3
55°	7278.5	5606.9	1768.2	1470.0	1457.4	1423.8	1383.9	1352.4	1316.7	1289.4	1283.1
56°	7499.0	5856.8	1743.0	1444.8	1423.8	1404.9	1352.4	1333.5	1276.8	1270.5	1266.3
57.5°	7677.5	6077.3	1747.2	1396.5	1375.5	1358.7	1327.2	1281.0	1243.2	1220.1	1230.6
60°	7274.3	5688.8	1667.4	1323.0	1318.8	1287.3	1243.2	1222.2	1176.0	1148.7	1142.4
62.5°	5407.4	3861.9	1352.4	1228.5	1226.4	1192.8	1142.4	1119.3	1110.9	1073.1	1073.1
65°	3114.3	2421.3	1169.7	1150.8	1134.0	1100.4	1050.0	1031.1	1010.1	997.5	987.0
67.5°	1329.3	1255.8	1062.6	1060.5	1041.6	999.6	949.2	919.8	892.5	867.3	879.9
70°	963.9	978.6	959.7	949.2	926.1	873.6	829.5	793.8	751.8	735.0	747.6
72.5°	764.4	795.9	823.2	825.3	798.0	737.1	688.8	640.5	594.3	571.2	581.7
75°	579.6	600.6	627.9	634.2	594.3	552.3	506.1	455.7	420.0	392.7	396.9
77.5°	417.9	413.7	438.9	434.7	415.8	386.4	344.4	298.2	258.3	233.1	235.2
80°	285.6	291.9	306.6	304.5	281.4	262.5	231.0	193.2	163.8	142.8	138.6
82.5°	199.5	210.0	222.6	212.1	193.2	174.3	151.2	123.9	100.8	84.0	79.8
85°	71.4	81.9	94.5	100.8	107.1	102.9	86.1	69.3	50.4	42.0	39.9
87.5°	14.7	16.8	18.9	18.9	18.9	16.8	14.7	14.7	12.6	6.3	6.3
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)