

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: P528778

Luminaire Tested: **GALN-SA3D-827-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528778
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-827-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 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: 14389 lumens
Efficiency: N/A
Efficacy: 78.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

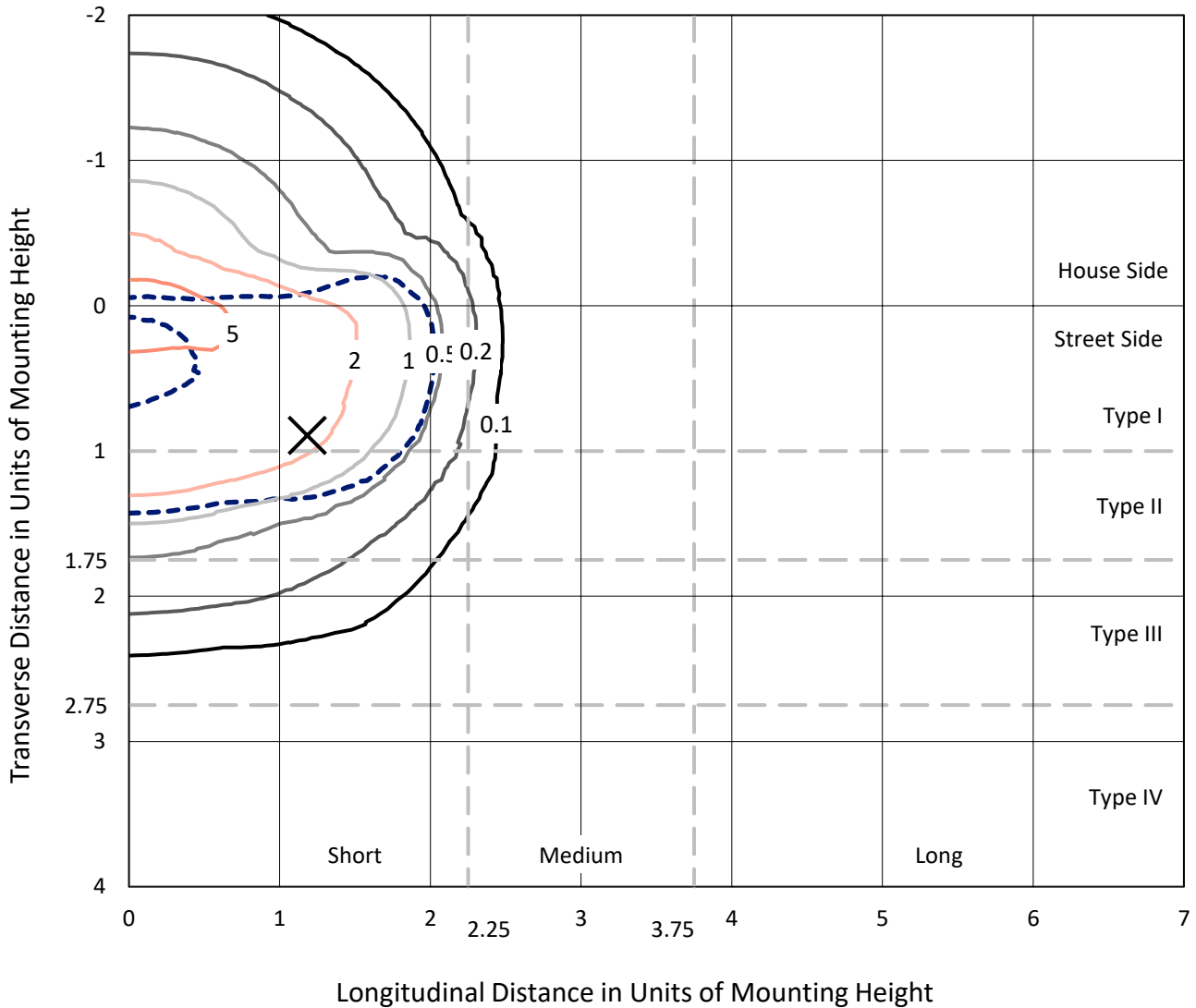
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

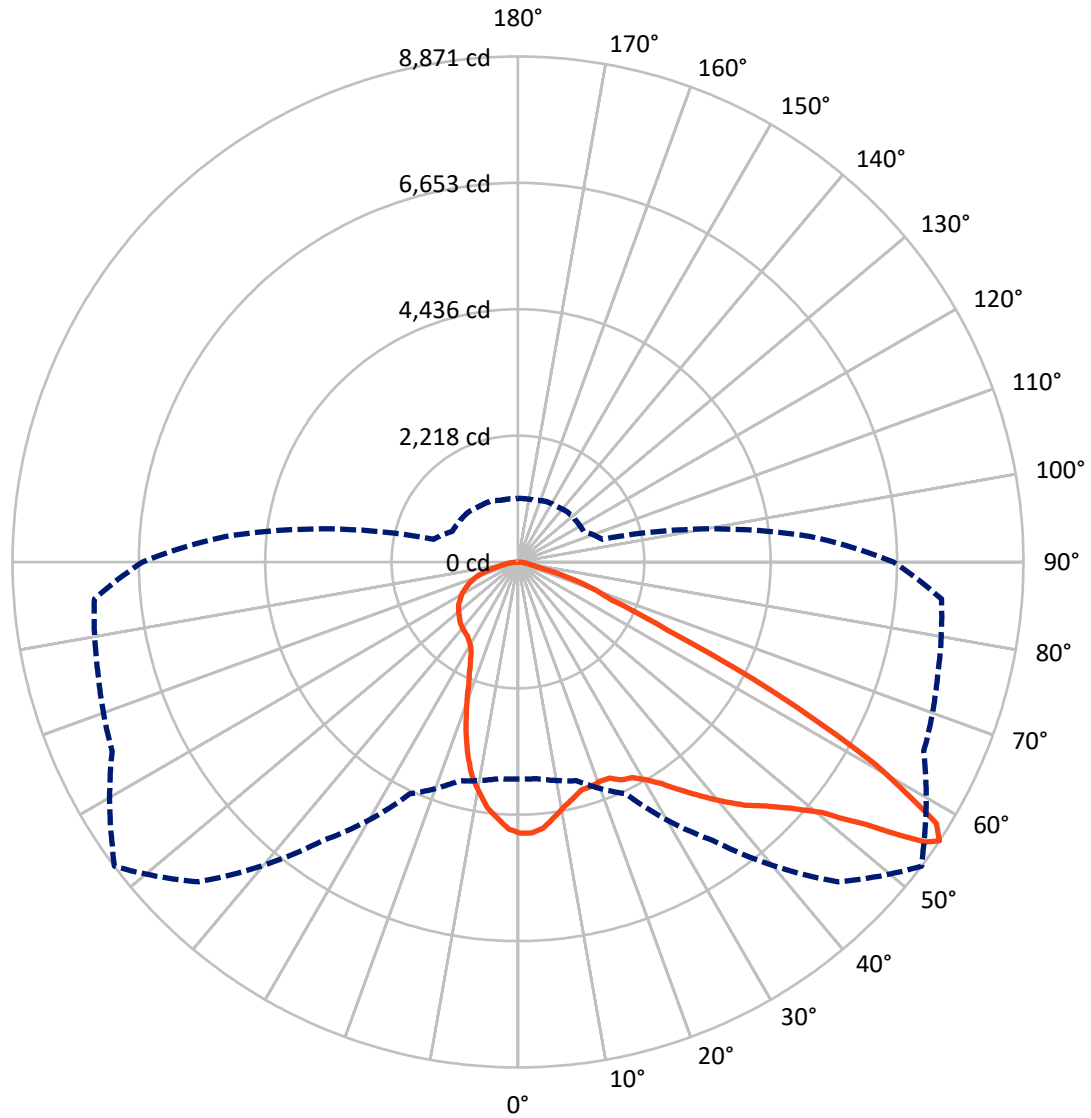
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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	4199.0	0.0	4199.0
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	10190.0	0.0	10190.0
	% Fixture	70.8	0.0	70.8
Total	Lumens	14389.0	0.0	14389.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	421.4	2.9
10°-20°	1052.6	7.3
20°-30°	1552.1	10.8
30°-40°	2217.6	15.4
40°-50°	3052.3	21.2
50°-60°	3607.0	25.1
60°-70°	1922.3	13.4
70°-80°	487.7	3.4
80°-90°	76.0	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°	14389.0	100.0
0°-180°	14389.0	100.0



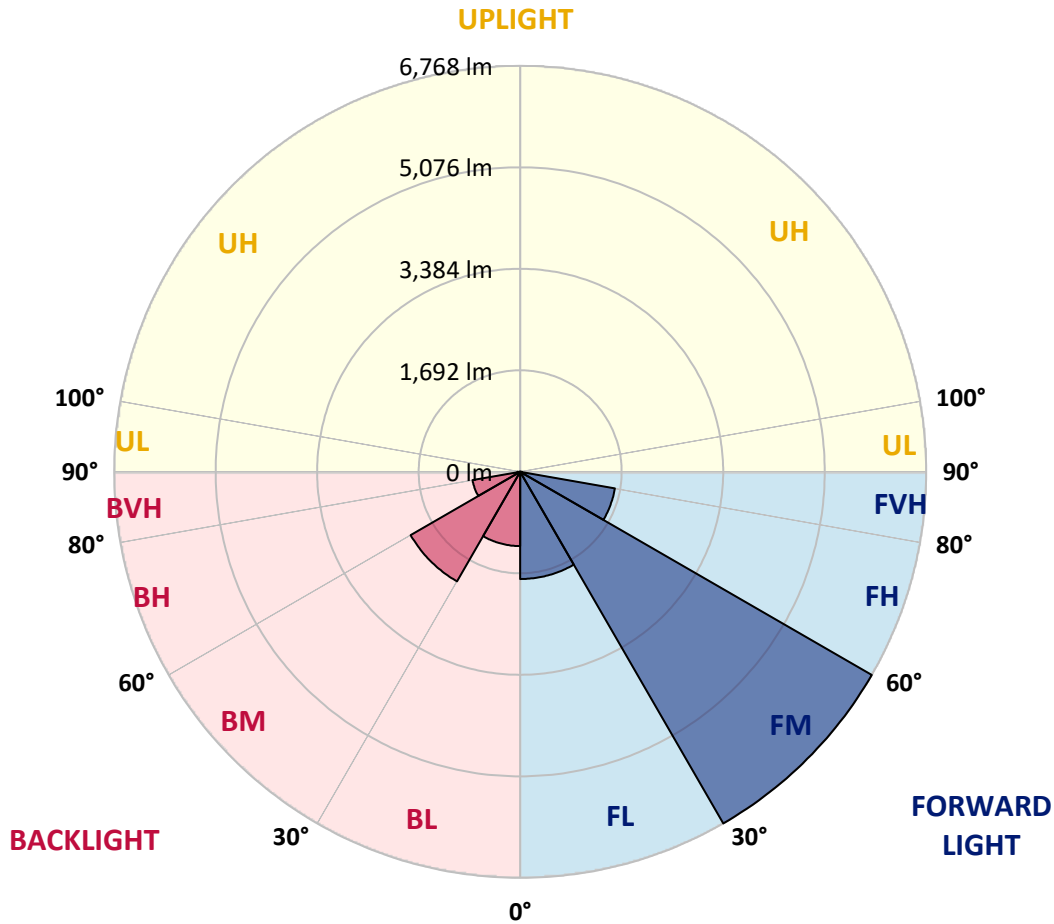
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1787.6	12.4			
FM (30°-60°)	6768.3	47.0			
FH (60°-80°)	1603.5	11.1			G1/1800
FVH (80°-90°)	30.6	0.2			G1/100
BL (0°-30°)	1238.5	8.6	B3/2500		
BM (30°-60°)	2108.6	14.7	B2/2500		
BH (60°-80°)	806.5	5.6	B2/1000		G2/1000
BVH (80°-90°)	45.5	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°	4760.4	4760.4	4760.4	4760.4	4760.4	4760.4	4760.4	4760.4	4760.4	4760.4	4760.4
2.5°	4701.4	4660.8	4684.8	4675.5	4751.2	4773.4	4762.3	4771.5	4814.0	4793.7	4751.2
5°	4393.1	4450.3	4461.4	4489.1	4533.4	4620.2	4688.5	4706.9	4727.2	4821.4	4812.1
7.5°	4112.6	4151.3	4131.0	4212.2	4308.2	4448.5	4531.6	4546.3	4732.8	4784.4	4823.2
10°	3935.4	3896.6	3988.9	4011.0	4119.9	4280.5	4380.2	4441.1	4610.9	4815.8	4839.8
12.5°	3771.1	3758.2	3813.5	3876.3	3998.1	4164.2	4265.8	4289.8	4551.9	4767.8	4880.4
15°	3649.2	3634.5	3689.9	3736.0	3878.1	4025.8	4155.0	4223.3	4487.3	4740.1	4845.4
17.5°	3553.3	3551.4	3582.8	3665.9	3811.7	3935.4	4143.9	4147.6	4454.0	4782.6	4874.9
20°	3547.7	3545.9	3551.4	3643.7	3776.6	3928.0	4108.9	4142.1	4454.0	4753.1	4876.7
22.5°	3593.9	3564.3	3597.6	3656.6	3752.6	3940.9	4121.8	4195.6	4561.1	4898.9	4959.8
25°	3667.7	3675.1	3693.5	3713.9	3769.2	3970.4	4236.2	4297.1	4686.6	5024.4	5074.2
27.5°	3802.5	3798.8	3806.1	3817.2	3865.2	3998.1	4282.4	4439.3	4948.7	5247.8	5197.9
30°	4000.0	3987.0	4016.6	4055.3	4011.0	4086.7	4435.6	4553.7	5192.4	5472.9	5336.4
32.5°	4179.0	4227.0	4282.4	4299.0	4245.5	4260.2	4638.6	4758.6	5395.4	5749.8	5506.2
35°	4402.4	4441.1	4515.0	4566.6	4557.4	4513.1	4915.5	5074.2	5688.9	5952.9	5685.2
37.5°	4620.2	4666.3	4788.1	4941.3	4856.4	4836.1	5210.8	5341.9	5779.4	6061.8	5816.3
40°	4970.9	4969.0	5179.5	5258.8	5334.5	5299.4	5517.2	5561.5	5827.3	6037.8	5820.0
42.5°	5382.5	5356.7	5570.8	5694.4	5792.3	5796.0	5836.6	5821.8	5849.5	5916.0	5781.2
45°	5773.8	5829.2	6045.2	6266.7	6364.5	6375.6	6106.1	6078.4	5888.3	5880.9	5707.4
47.5°	6251.9	6264.8	6442.0	6733.7	6960.7	6883.2	6454.9	6394.0	6058.1	6115.3	5831.0
50°	6279.6	6375.6	6534.3	6877.6	7575.4	7555.1	6907.2	6792.7	6331.3	6447.6	6176.2
52.5°	5700.0	5677.8	5866.1	6427.3	7529.2	8223.3	7656.6	7383.4	6918.2	6829.6	6735.5
55°	4343.3	4395.0	4561.1	5127.8	6538.0	8232.5	8677.3	8454.0	7545.8	7394.5	7285.6
56°	3809.8	3817.2	3974.1	4491.0	5965.8	7939.0	8871.2	8690.3	7857.8	7627.1	7460.9
57.5°	3158.3	3115.8	3197.0	3479.4	5035.5	7318.8	8658.9	8836.1	8223.3	7878.1	7647.4
60°	2486.4	2477.1	2443.9	2495.6	3182.2	5513.6	7208.0	7606.7	8186.3	7641.8	7324.3
62.5°	2030.4	1984.3	2050.7	2124.6	2211.3	3420.4	5065.0	5299.4	6499.2	6100.5	5502.5
65°	1574.5	1552.4	1635.4	1875.4	1927.1	2172.6	2885.1	3066.0	3837.5	3769.2	3318.8
67.5°	1083.5	1087.2	1159.2	1524.7	1786.8	1764.6	1766.5	1860.6	2002.7	1487.8	1295.8
70°	686.7	684.8	723.6	982.0	1437.9	1452.7	1378.9	1351.2	1281.0	775.3	821.4
72.5°	441.2	428.2	448.5	542.7	743.9	860.2	886.0	902.6	742.0	609.1	660.8
75°	249.2	236.3	228.9	252.9	293.5	339.6	372.9	383.9	430.1	461.5	489.2
77.5°	75.7	68.3	83.1	110.8	145.8	195.7	238.1	245.5	289.8	326.7	354.4
80°	33.2	36.9	51.7	73.8	103.4	138.4	168.0	179.0	208.6	236.3	243.7
82.5°	20.3	22.2	35.1	49.8	72.0	97.8	120.0	123.7	153.2	175.4	180.9
85°	7.4	9.2	18.5	29.5	46.1	62.8	62.8	68.3	62.8	62.8	68.3
87.5°	0.0	0.0	1.8	3.7	3.7	5.5	7.4	7.4	9.2	11.1	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4760.4	4760.4	4760.4	4760.4	4760.4	4760.4	4760.4	4760.4	4760.4	4760.4	4760.4
2.5°	4773.4	4764.1	4749.4	4695.8	4690.3	4673.7	4581.4	4566.6	4581.4	4537.1	4540.8
5°	4764.1	4791.8	4681.1	4627.5	4527.9	4455.9	4372.8	4330.4	4254.7	4206.7	4260.2
7.5°	4804.7	4793.7	4655.2	4538.9	4389.4	4206.7	4060.9	3977.8	3844.9	3808.0	3835.7
10°	4790.0	4730.9	4568.5	4415.3	4132.9	3972.3	3736.0	3507.1	3381.6	3317.0	3307.8
12.5°	4769.7	4753.1	4481.7	4217.8	3920.6	3582.8	3250.5	3034.6	2829.7	2741.1	2754.0
15°	4793.7	4653.4	4319.3	3985.2	3590.2	3147.2	2789.1	2510.4	2368.2	2311.0	2311.0
17.5°	4782.6	4605.4	4241.8	3724.9	3224.7	2700.5	2307.3	2139.3	2080.3	2080.3	2096.9
20°	4788.1	4636.8	4084.9	3464.7	2792.8	2274.1	1988.0	1927.1	1952.9	1962.1	1971.4
22.5°	4819.5	4533.4	3931.7	3178.6	2392.2	1945.5	1805.2	1807.1	1853.2	1903.1	1893.8
25°	4858.3	4492.8	3745.2	2894.3	2085.8	1784.9	1740.6	1735.1	1770.2	1796.0	1799.7
27.5°	4825.1	4422.7	3555.1	2539.9	1834.8	1677.9	1668.6	1672.3	1683.4	1735.1	1718.5
30°	4934.0	4443.0	3317.0	2242.7	1696.3	1642.8	1631.7	1626.2	1642.8	1657.6	1644.7
32.5°	5068.7	4371.0	3139.8	1956.6	1628.0	1617.0	1594.8	1587.4	1596.7	1581.9	1589.3
35°	5127.8	4358.1	2909.1	1751.7	1574.5	1565.3	1552.4	1550.5	1552.4	1539.4	1528.4
37.5°	5161.0	4419.0	2645.1	1657.6	1541.3	1550.5	1521.0	1517.3	1484.1	1491.4	1497.0
40°	5218.2	4324.8	2431.0	1567.1	1521.0	1502.5	1476.7	1471.1	1449.0	1436.1	1449.0
42.5°	5135.2	4297.1	2220.6	1528.4	1491.4	1471.1	1452.7	1421.3	1413.9	1402.8	1395.5
45°	5068.7	4138.4	2032.3	1480.4	1456.4	1445.3	1410.2	1377.0	1349.3	1360.4	1343.8
47.5°	5118.5	4083.0	1845.9	1439.8	1408.4	1395.5	1360.4	1334.5	1306.9	1293.9	1290.2
50°	5317.9	4186.4	1689.0	1410.2	1367.8	1360.4	1314.2	1284.7	1258.9	1249.6	1253.3
52.5°	5794.1	4468.8	1581.9	1349.3	1329.0	1295.8	1269.9	1233.0	1216.4	1186.9	1205.3
55°	6397.7	4928.4	1554.2	1292.1	1281.0	1251.5	1216.4	1188.7	1157.3	1133.4	1127.8
56°	6591.5	5148.1	1532.1	1269.9	1251.5	1234.9	1188.7	1172.1	1122.3	1116.7	1113.0
57.5°	6748.4	5341.9	1535.7	1227.5	1209.0	1194.3	1166.6	1126.0	1092.7	1072.4	1081.7
60°	6394.0	5000.4	1465.6	1162.9	1159.2	1131.5	1092.7	1074.3	1033.7	1009.7	1004.1
62.5°	4753.1	3394.5	1188.7	1079.8	1078.0	1048.4	1004.1	983.8	976.5	943.2	943.2
65°	2737.4	2128.3	1028.1	1011.5	996.8	967.2	922.9	906.3	887.9	876.8	867.5
67.5°	1168.4	1103.8	934.0	932.2	915.5	878.6	834.3	808.5	784.5	762.3	773.4
70°	847.2	860.2	843.6	834.3	814.0	767.9	729.1	697.7	660.8	646.0	657.1
72.5°	671.9	699.6	723.6	725.4	701.4	647.9	605.4	563.0	522.4	502.1	511.3
75°	509.5	527.9	551.9	557.4	522.4	485.5	444.8	400.5	369.2	345.2	348.9
77.5°	367.3	363.6	385.8	382.1	365.5	339.6	302.7	262.1	227.0	204.9	206.7
80°	251.0	256.6	269.5	267.6	247.3	230.7	203.0	169.8	144.0	125.5	121.8
82.5°	175.4	184.6	195.7	186.4	169.8	153.2	132.9	108.9	88.6	73.8	70.1
85°	62.8	72.0	83.1	88.6	94.1	90.4	75.7	60.9	44.3	36.9	35.1
87.5°	12.9	14.8	16.6	16.6	16.6	14.8	12.9	12.9	11.1	5.5	5.5
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)