

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: P452762

Luminaire Tested: **GALN-SA3D-727-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452762
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-727-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19683 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

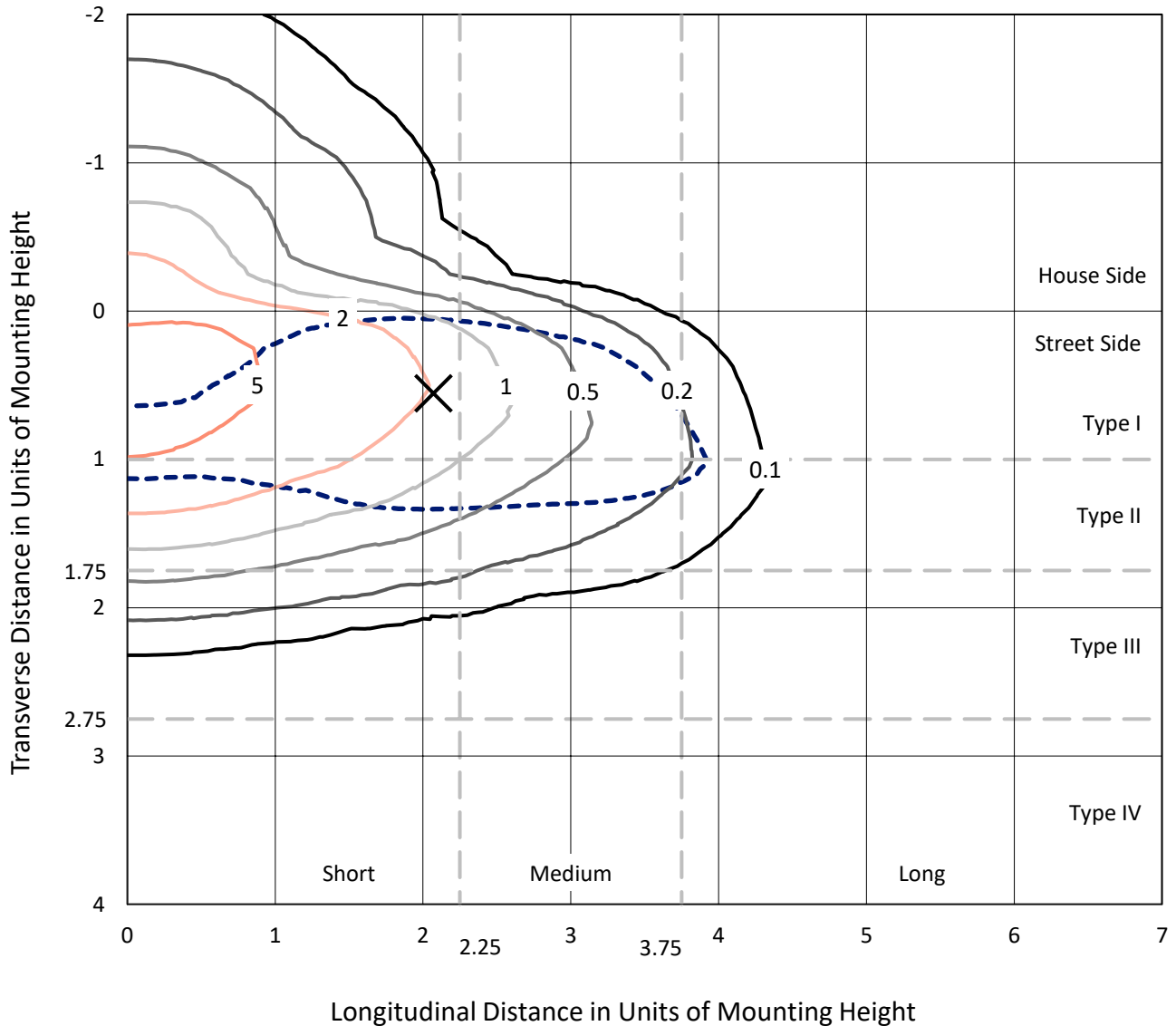
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

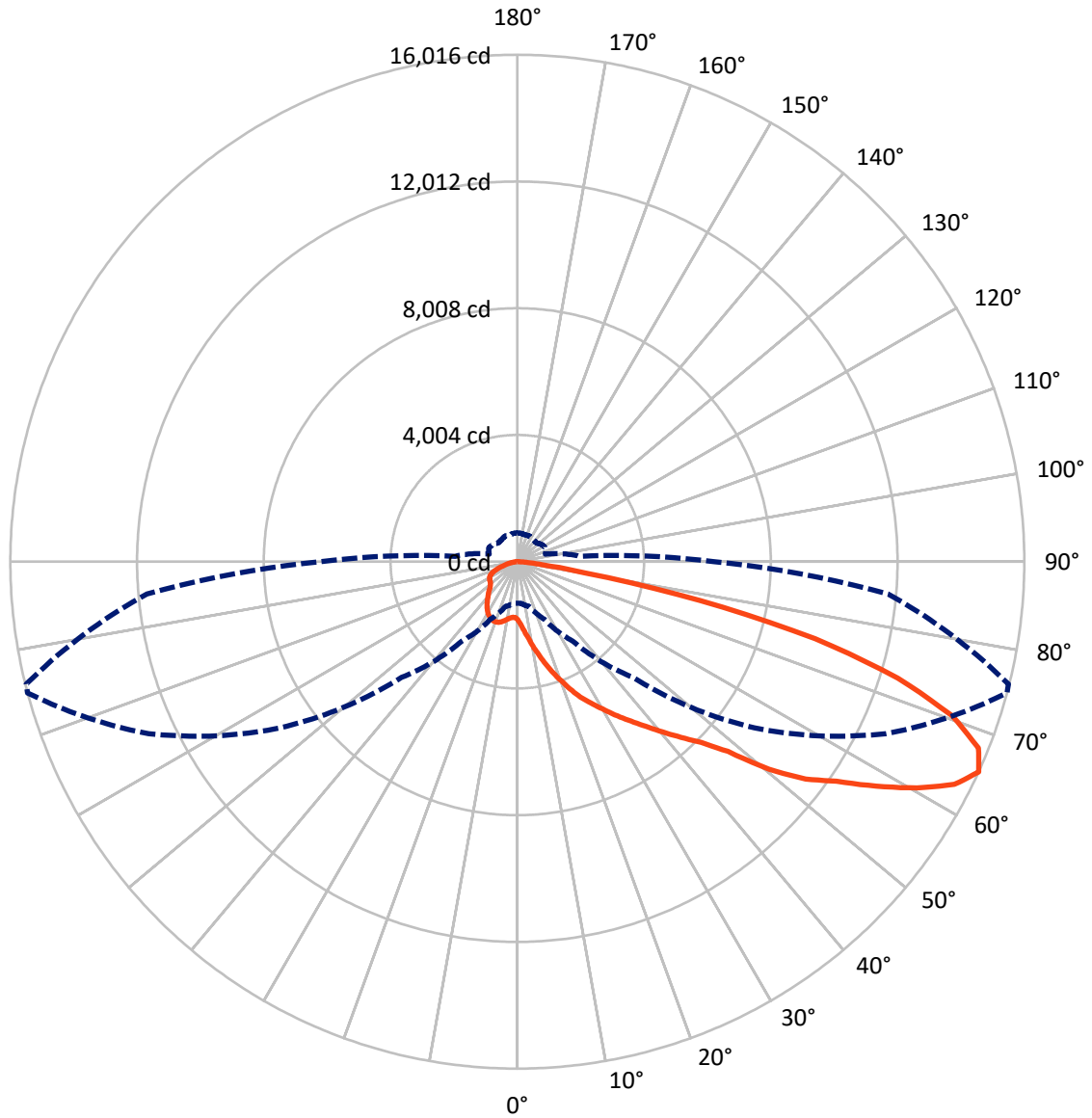
× Max cd
 - - - 1/2 Max cd



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 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3309.0	0.0	3309.0
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	16374.0	0.0	16374.0
	% Fixture	83.2	0.0	83.2
Total	Lumens	19683.0	0.0	19683.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.2	1.1
10°-20°	870.3	4.4
20°-30°	1681.1	8.5
30°-40°	2730.7	13.9
40°-50°	3756.3	19.1
50°-60°	4434.9	22.5
60°-70°	3885.7	19.7
70°-80°	1855.1	9.4
80°-90°	246.8	1.3
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°	19683.0	100.0
0°-180°	19683.0	100.0



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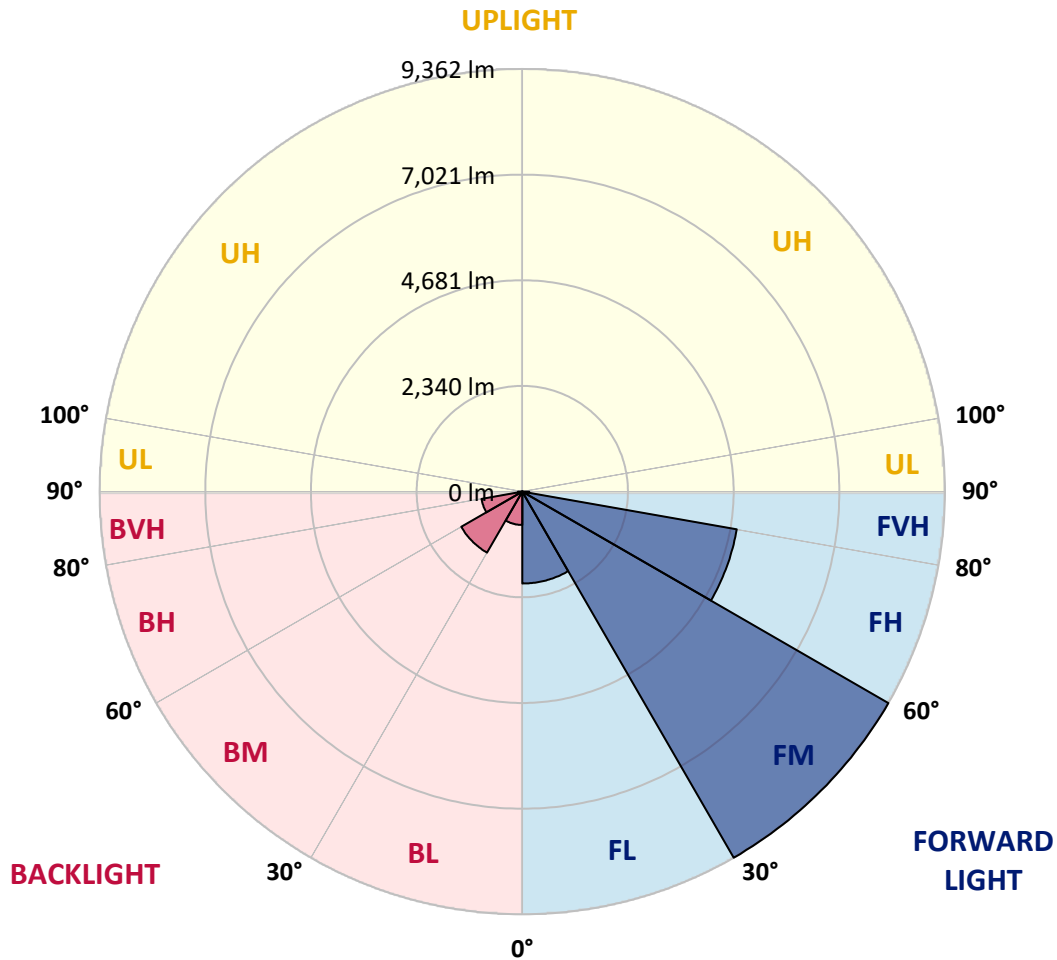
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2034.9	10.3			
FM	(30°-60°)	9361.6	47.6			
FH	(60°-80°)	4823.2	24.5			G2/5000
FVH	(80°-90°)	154.3	0.8			G2/225
BL	(0°-30°)	738.7	3.8	B2/1000		
BM	(30°-60°)	1560.2	7.9	B2/2500		
BH	(60°-80°)	917.5	4.7	B2/1000		G2/1000
BVH	(80°-90°)	92.6	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1828.8	1828.8	1828.8	1828.8	1828.8	1828.8	1828.8	1828.8	1828.8	1828.8	1828.8
2.5°	2429.9	2413.8	2396.8	2349.8	2299.6	2243.0	2161.9	2084.0	1980.4	1977.2	1900.3
5°	3103.5	3092.8	3017.0	2973.3	2856.9	2702.1	2570.8	2366.9	2177.9	2155.5	2006.0
7.5°	3722.7	3681.1	3652.3	3573.3	3458.0	3259.4	3005.3	2729.9	2413.8	2384.0	2136.3
10°	4189.3	4185.0	4170.0	4101.7	4015.2	3817.7	3535.9	3140.9	2712.8	2654.1	2294.3
12.5°	4538.4	4541.6	4539.4	4538.4	4476.4	4308.8	4003.5	3587.1	3014.9	2973.3	2476.8
15°	4767.9	4799.9	4812.7	4866.1	4871.5	4759.4	4496.7	4018.4	3355.5	3293.5	2673.3
17.5°	4919.5	4935.5	4995.3	5086.0	5159.7	5139.4	4905.6	4417.7	3703.5	3599.9	2877.2
20°	5064.7	5092.5	5138.4	5262.2	5392.4	5452.2	5287.8	4826.6	4048.3	3982.1	3102.4
22.5°	5366.8	5406.3	5422.3	5485.3	5596.4	5702.1	5627.3	5218.4	4426.3	4336.6	3341.6
25°	5878.2	5919.8	5875.0	5860.1	5896.4	5948.7	5932.7	5587.8	4782.8	4654.7	3567.9
27.5°	6544.4	6549.7	6462.2	6378.9	6289.2	6262.5	6213.4	5915.6	5092.5	4985.7	3795.3
30°	7259.7	7234.1	7088.9	6938.3	6786.7	6637.3	6496.3	6231.6	5437.3	5314.5	4018.4
32.5°	7923.7	7909.9	7748.6	7514.8	7258.6	7117.7	6832.6	6550.8	5806.7	5688.2	4248.0
35°	8421.2	8441.5	8264.3	8009.1	7729.4	7604.5	7244.7	6886.0	6188.9	6059.7	4497.8
37.5°	8774.6	8763.9	8607.0	8386.0	8140.5	8031.6	7726.2	7252.2	6599.9	6476.1	4771.1
40°	8900.6	8894.2	8777.8	8616.6	8460.7	8422.3	8230.1	7647.2	7070.7	6925.5	5099.9
42.5°	8820.5	8834.4	8757.5	8713.8	8684.9	8712.7	8730.8	8165.0	7584.2	7450.8	5456.5
45°	8575.0	8567.5	8556.8	8628.3	8790.6	8973.2	9226.2	8654.0	8142.6	8035.8	5934.8
47.5°	8136.2	8189.6	8216.3	8413.8	8768.2	9200.6	9796.3	9309.5	8952.9	8860.0	6664.0
50°	7522.3	7565.0	7723.0	8074.3	8602.7	9286.0	10353.6	10381.3	10304.5	10130.5	7456.1
52.5°	6563.6	6629.8	6955.4	7599.2	8263.2	9250.8	10690.9	11300.5	11402.0	11271.7	8236.5
55°	5490.7	5583.5	5927.3	6771.8	7795.6	9058.6	10923.7	11833.3	12237.9	12117.3	8988.1
57.5°	4440.1	4538.4	4891.7	5709.5	6980.0	8633.7	11076.4	12426.9	13376.0	13219.0	9923.3
60°	3327.7	3430.2	3733.4	4575.7	5818.4	7803.1	10972.8	12941.5	14513.0	14445.7	10859.6
62.5°	2146.9	2260.1	2523.8	3221.0	4472.2	6668.2	10418.7	13225.4	15497.3	15416.1	11542.9
65°	1307.8	1320.6	1465.8	1999.6	3060.8	5162.9	9151.5	12848.6	16016.1	15991.6	11751.1
67.5°	845.5	865.8	932.0	1197.8	1835.2	3586.1	7317.3	11604.8	15712.9	15704.4	11320.8
70°	714.2	720.6	750.5	808.2	1066.5	2174.7	5138.4	9622.3	14561.0	14561.0	10286.3
72.5°	638.4	647.0	657.6	675.8	761.2	1232.0	3066.1	7490.3	12572.1	12655.3	8755.4
75°	579.7	577.6	584.0	587.2	649.1	805.0	1585.4	5539.8	9725.8	9559.3	6340.5
77.5°	496.4	499.6	496.4	510.3	573.3	612.8	805.0	3717.4	5894.2	5678.6	3182.5
80°	407.8	413.2	418.5	427.0	490.0	465.5	483.6	1694.3	2180.0	2134.1	983.3
82.5°	306.4	313.9	322.4	342.7	385.4	307.5	305.3	723.8	786.8	720.6	361.9
85°	123.8	146.3	221.0	241.3	242.3	168.7	187.9	302.1	321.3	313.9	142.0
87.5°	28.8	34.2	71.5	107.8	99.3	63.0	69.4	98.2	112.1	103.6	48.0
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°	1828.8	1828.8	1828.8	1828.8	1828.8	1828.8	1828.8	1828.8	1828.8	1828.8	1828.8
2.5°	1865.1	1827.7	1763.7	1714.6	1679.3	1648.4	1629.2	1617.4	1613.1	1612.1	1613.1
5°	1928.1	1861.9	1760.5	1696.4	1661.2	1640.9	1629.2	1628.1	1629.2	1630.2	1627.0
7.5°	2014.6	1919.5	1787.2	1727.4	1700.7	1685.7	1680.4	1678.3	1679.3	1678.3	1678.3
10°	2129.9	1999.6	1839.5	1777.6	1755.1	1738.1	1729.5	1724.2	1719.9	1715.6	1713.5
12.5°	2256.9	2088.2	1896.1	1836.3	1804.2	1777.6	1758.3	1744.5	1734.9	1725.2	1723.1
15°	2398.9	2182.2	1959.0	1875.8	1829.9	1790.4	1757.3	1734.9	1717.8	1703.9	1702.8
17.5°	2534.5	2270.8	2001.8	1893.9	1826.7	1771.1	1727.4	1696.4	1675.1	1656.9	1654.8
20°	2679.7	2355.1	2021.0	1882.2	1794.6	1727.4	1669.7	1632.4	1607.8	1587.5	1584.3
22.5°	2825.9	2426.7	2018.8	1844.8	1739.1	1660.1	1599.3	1559.8	1530.9	1510.7	1503.2
25°	2965.8	2484.3	1992.1	1785.0	1662.3	1580.0	1518.1	1481.8	1456.2	1431.7	1431.7
27.5°	3091.8	2518.5	1942.0	1712.4	1583.3	1496.8	1447.7	1414.6	1391.1	1375.1	1365.5
30°	3215.6	2534.5	1873.6	1620.6	1500.0	1426.3	1386.8	1367.6	1346.2	1328.1	1326.0
32.5°	3326.6	2531.3	1788.2	1530.9	1421.0	1368.7	1352.6	1337.7	1315.3	1289.7	1283.3
35°	3434.5	2509.9	1686.8	1432.7	1354.8	1334.5	1338.8	1317.4	1276.8	1244.8	1239.5
37.5°	3551.9	2471.5	1575.8	1352.6	1299.3	1318.5	1329.2	1282.2	1216.0	1165.8	1154.1
40°	3687.5	2427.7	1460.5	1272.6	1255.5	1303.5	1303.5	1217.1	1126.3	1095.4	1086.8
42.5°	3846.6	2391.4	1364.4	1205.3	1219.2	1267.2	1261.9	1130.6	1093.2	1077.2	1072.9
45°	4098.5	2378.6	1265.1	1146.6	1189.3	1224.5	1180.8	1100.7	1079.3	1066.5	1062.3
47.5°	4496.7	2393.6	1177.6	1102.8	1155.1	1181.8	1090.0	1080.4	1065.5	1047.3	1045.2
50°	4866.1	2379.7	1115.6	1078.3	1125.3	1130.6	1052.7	1055.9	1047.3	1027.0	1022.8
52.5°	5168.3	2335.9	1076.1	1065.5	1099.6	1040.9	1017.4	1029.2	1026.0	1000.3	996.1
55°	5500.3	2309.2	1056.9	1065.5	1082.5	963.0	984.3	1001.4	997.1	979.0	977.9
57.5°	5902.8	2314.6	1043.0	1068.7	1065.5	923.5	951.2	971.5	970.4	965.1	965.1
60°	6314.9	2316.7	1021.7	1067.6	1045.2	892.5	917.1	945.9	948.0	951.2	951.2
62.5°	6451.5	2223.8	980.1	1048.4	1000.3	862.6	885.0	924.5	922.4	930.9	932.0
65°	6196.4	1966.5	918.1	1004.6	942.7	841.3	860.5	896.8	885.0	907.5	911.7
67.5°	5640.1	1627.0	822.1	925.6	878.6	818.8	844.5	858.4	837.0	880.8	881.8
70°	4874.7	1270.4	700.3	813.5	806.0	795.4	831.7	810.3	780.4	833.8	823.1
72.5°	4076.1	970.4	559.4	665.1	708.9	760.1	809.2	748.4	706.8	722.8	703.5
75°	3061.9	717.4	449.5	521.0	590.4	710.0	789.0	673.7	609.6	594.7	590.4
77.5°	1560.8	468.7	336.3	389.7	443.1	641.6	761.2	586.1	505.0	481.5	470.8
80°	557.3	291.5	237.0	269.0	298.9	551.9	665.1	484.7	391.8	387.5	391.8
82.5°	258.4	187.9	159.1	176.2	177.2	368.3	507.1	361.9	297.9	452.7	382.2
85°	111.0	93.9	89.7	87.5	81.1	164.4	285.0	194.3	303.2	135.6	124.9
87.5°	33.1	37.4	33.1	24.6	18.1	18.1	28.8	10.7	7.5	5.3	5.3
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)