

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: P452862

Luminaire Tested: **GALN-SA3D-760-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452862
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3D-760-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23320 lumens
Efficiency: N/A
Efficacy: 126.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

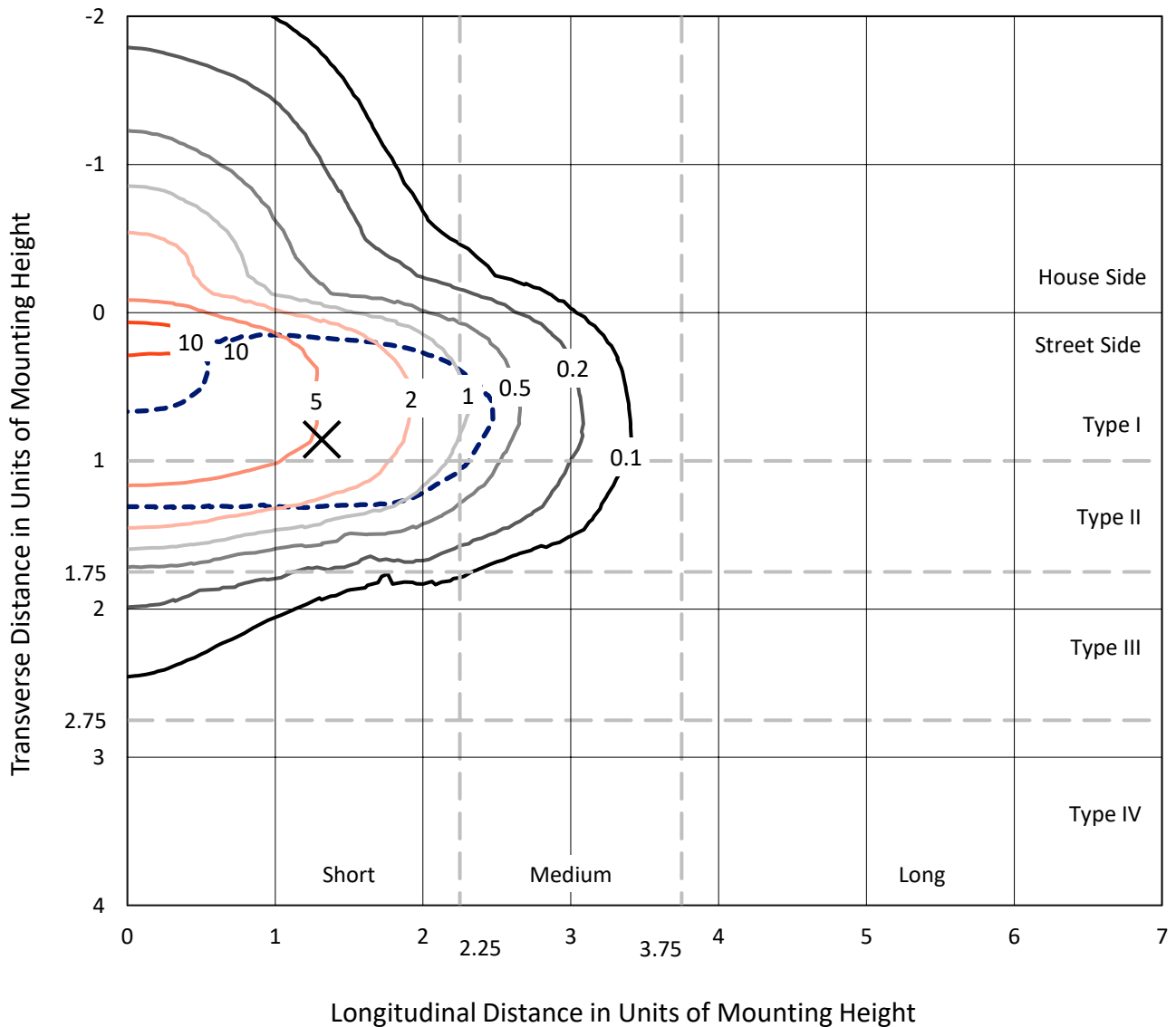
Input Watts (W): 184
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

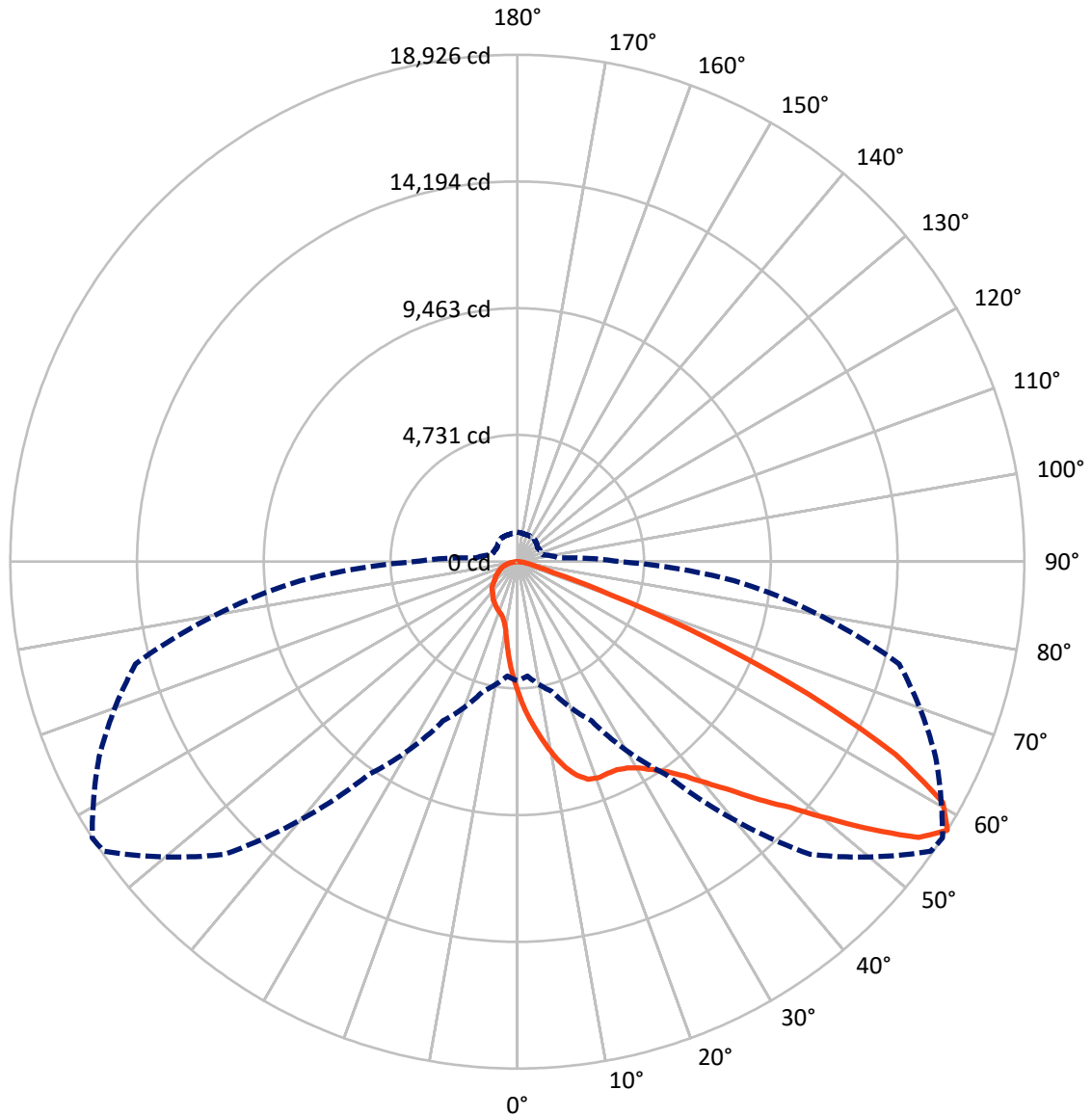
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3546.3	0.0	3546.3
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	19773.7	0.0	19773.7
	% Fixture	84.8	0.0	84.8
Total	Lumens	23320.0	0.0	23320.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	470.9	2.0
10°-20°	1387.7	6.0
20°-30°	2304.3	9.9
30°-40°	3470.9	14.9
40°-50°	5211.2	22.3
50°-60°	5841.1	25.0
60°-70°	3418.5	14.7
70°-80°	1011.2	4.3
80°-90°	204.4	0.9
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°	23320.0	100.0
0°-180°	23320.0	100.0

Coefficient of Utilization



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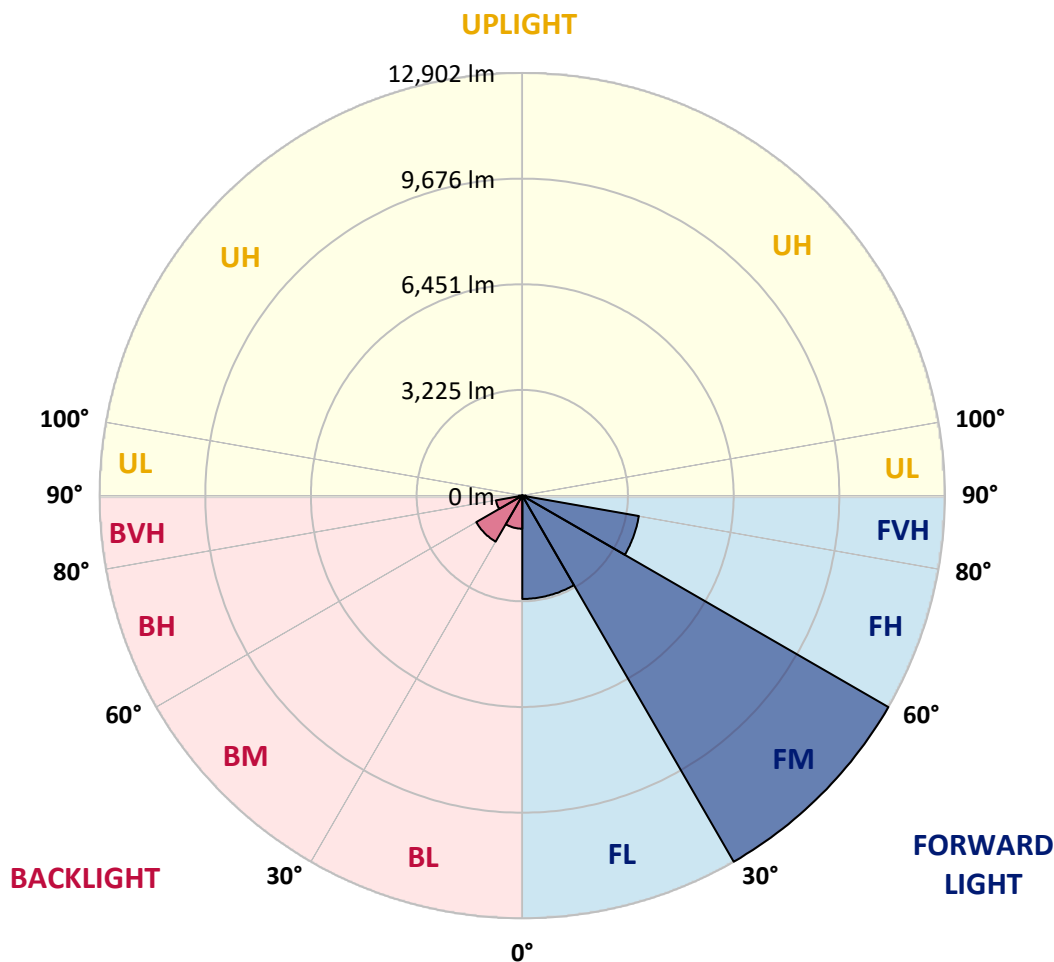
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3152.3	13.5			
FM	(30°-60°)	12901.6	55.3			
FH	(60°-80°)	3613.7	15.5			G2/5000
FVH	(80°-90°)	106.0	0.5			G2/225
BL	(0°-30°)	1010.5	4.3	B3/2500		
BM	(30°-60°)	1621.5	7.0	B2/2500		
BH	(60°-80°)	816.0	3.5	B2/1000		G2/1000
BVH	(80°-90°)	98.3	0.4			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°	57°	65°	75°	85°
0°	4899.3	4899.3	4899.3	4899.3	4899.3	4899.3	4899.3	4899.3	4899.3	4899.3	4899.3
2.5°	6087.7	6021.3	5969.0	5923.0	5863.0	5700.9	5538.8	5536.2	5407.3	5208.2	5003.9
5°	7079.6	6990.2	7001.7	6858.7	6715.7	6480.9	6137.5	6119.6	5845.2	5472.4	5093.3
7.5°	7725.5	7726.7	7691.0	7609.3	7454.8	7188.1	6798.7	6710.6	6329.0	5763.5	5195.4
10°	7692.3	7726.7	7786.7	7857.0	7904.2	7772.7	7417.8	7310.6	6814.0	6115.8	5309.0
12.5°	7250.6	7304.2	7389.7	7565.9	7850.6	8067.6	7946.3	7859.5	7375.7	6466.8	5434.1
15°	6974.9	7006.8	7054.0	7172.7	7479.1	7998.6	8312.7	8266.7	7905.5	6863.8	5574.5
17.5°	6890.6	6922.5	6937.9	7010.6	7228.9	7761.2	8456.9	8538.6	8375.2	7228.9	5716.2
20°	6974.9	6990.2	6990.2	7033.6	7204.7	7622.1	8450.5	8615.2	8760.7	7666.7	5849.0
22.5°	7195.7	7202.1	7193.2	7208.5	7336.1	7660.4	8390.5	8594.8	9072.2	8038.2	5952.4
25°	7554.4	7564.6	7505.9	7470.2	7563.4	7828.9	8423.7	8611.4	9316.0	8393.1	6021.3
27.5°	7961.6	7974.4	7902.9	7819.9	7863.3	8036.9	8553.9	8722.4	9498.5	8742.9	6064.7
30°	8460.7	8465.8	8345.9	8246.3	8218.2	8347.1	8776.0	8933.1	9725.8	9155.2	6129.8
32.5°	8971.3	9009.6	8855.2	8714.8	8667.5	8707.1	9104.1	9256.0	9996.4	9598.1	6234.5
35°	9665.8	9672.2	9487.1	9316.0	9160.3	9211.3	9524.1	9633.9	10370.4	10110.0	6382.6
37.5°	10532.5	10591.2	10335.9	10016.8	9825.3	9751.3	10032.1	10152.1	10895.1	10738.0	6606.0
40°	11495.0	11516.7	11298.4	11099.3	10749.5	10535.1	10729.1	10859.3	11542.2	11487.4	6865.1
42.5°	12100.1	12147.3	12163.9	12143.5	11880.5	11520.5	11594.6	11655.9	12308.2	12190.7	7130.6
45°	12304.3	12374.5	12612.0	13114.9	13143.0	12788.1	12615.8	12674.5	13143.0	12900.5	7384.6
47.5°	11966.1	12086.0	12523.9	13555.3	14327.6	14354.4	13834.9	13705.9	13903.8	13488.9	7568.5
50°	11091.6	11117.2	11787.3	13280.9	14882.9	15851.8	15314.4	15074.4	14626.3	13924.2	7694.8
52.5°	9738.5	9767.9	10329.6	12005.6	14540.8	16898.5	17045.3	16616.4	15360.3	14262.5	7777.8
55°	7228.9	7398.7	8016.5	9636.4	12919.6	16800.2	18421.4	18177.6	16247.5	14530.6	7908.0
57.5°	4444.8	4289.1	5021.8	6556.2	9716.8	15449.7	18846.5	18925.6	17224.0	14755.2	8126.3
60°	2045.0	2075.6	2378.1	3381.5	5923.0	12086.0	17751.2	18251.6	17764.0	14747.6	8181.2
62.5°	1409.3	1381.2	1304.6	1484.6	2701.1	7643.8	14993.9	15841.6	16681.5	14289.3	7962.9
65°	1259.9	1231.8	1083.8	1034.0	1240.8	3331.7	10900.2	11969.9	14045.5	13132.8	7419.1
67.5°	1176.9	1138.7	985.5	888.5	885.9	1326.3	6427.3	7715.3	10417.6	11103.1	6428.5
70°	1090.1	1059.5	907.6	800.4	754.4	833.6	2824.9	3698.1	6764.3	8001.2	5007.8
72.5°	1003.3	967.6	831.0	716.1	656.1	624.2	1082.5	1408.0	3821.9	4797.1	3070.0
75°	877.0	859.1	742.9	648.5	583.4	504.2	686.8	783.8	1828.0	2203.3	1540.8
77.5°	767.2	748.0	660.0	566.8	519.5	409.8	487.6	532.3	771.0	893.6	695.7
80°	561.7	580.8	556.6	500.4	463.4	321.7	328.1	365.1	458.3	506.8	425.1
82.5°	356.1	391.9	428.9	385.5	351.0	254.0	227.2	241.3	312.7	331.9	188.9
85°	149.4	151.9	248.9	234.9	200.4	150.6	136.6	144.2	167.2	174.9	88.1
87.5°	57.4	56.2	88.1	81.7	62.5	43.4	43.4	48.5	66.4	61.3	28.1
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°	4899.3	4899.3	4899.3	4899.3	4899.3	4899.3	4899.3	4899.3	4899.3	4899.3	4899.3
2.5°	4915.9	4825.2	4645.2	4421.8	4258.5	4074.6	3912.5	3796.4	3753.0	3732.5	3694.2
5°	4912.0	4733.3	4360.6	3970.0	3655.9	3334.3	3062.4	2886.2	2870.9	2753.4	2742.0
7.5°	4913.3	4640.1	4046.6	3472.1	2993.4	2664.1	2439.4	2380.7	2310.5	2292.6	2301.6
10°	4917.1	4521.4	3709.6	2979.4	2516.0	2300.3	2216.0	2193.1	2195.6	2203.3	2204.5
12.5°	4922.2	4406.5	3359.8	2605.4	2247.9	2158.6	2149.7	2170.1	2191.8	2208.4	2212.2
15°	4928.6	4275.0	3019.0	2304.1	2113.9	2106.2	2135.6	2170.1	2200.7	2225.0	2228.8
17.5°	4921.0	4121.9	2733.0	2119.0	2039.9	2076.9	2125.4	2168.8	2196.9	2219.9	2222.4
20°	4903.1	3950.8	2457.3	1988.8	1993.9	2053.9	2106.2	2147.1	2177.7	2189.2	2198.2
22.5°	4834.2	3746.6	2217.3	1888.0	1939.0	2022.0	2084.5	2108.8	2074.3	2050.1	2056.5
25°	4716.7	3481.1	1993.9	1806.3	1889.2	1977.3	2041.1	1982.4	1954.3	1944.1	1949.2
27.5°	4569.9	3190.0	1825.4	1720.7	1825.4	1927.5	1909.7	1899.5	1886.7	1870.1	1873.9
30°	4411.6	2905.3	1682.4	1654.4	1756.5	1815.2	1822.9	1839.5	1825.4	1799.9	1810.1
32.5°	4264.8	2637.3	1573.9	1598.2	1708.0	1699.0	1756.5	1775.6	1710.5	1625.0	1628.8
35°	4139.7	2388.4	1492.2	1543.3	1625.0	1628.8	1686.3	1619.9	1549.7	1508.8	1511.4
37.5°	4045.3	2194.3	1438.6	1496.1	1519.1	1567.6	1536.9	1502.5	1493.5	1465.4	1466.7
40°	3989.1	2024.6	1404.2	1459.1	1455.2	1488.4	1390.1	1424.6	1437.4	1428.4	1429.7
42.5°	3932.9	1904.6	1368.4	1408.0	1406.7	1341.6	1319.9	1349.3	1382.5	1386.3	1383.7
45°	3888.3	1811.4	1331.4	1330.1	1355.7	1253.5	1247.2	1265.0	1312.3	1335.2	1334.0
47.5°	3838.5	1733.5	1275.2	1239.5	1247.2	1198.6	1188.4	1196.1	1253.5	1290.6	1300.8
50°	3775.9	1655.6	1205.0	1156.5	1124.6	1147.6	1150.1	1151.4	1208.9	1251.0	1259.9
52.5°	3726.1	1596.9	1124.6	1088.9	1050.6	1101.6	1120.8	1123.3	1157.8	1192.3	1198.6
55°	3755.5	1563.7	1045.5	1019.9	985.5	1054.4	1091.4	1096.5	1104.2	1129.7	1133.5
57.5°	3843.6	1571.4	981.6	948.5	922.9	998.2	1060.8	1064.6	1059.5	1090.1	1095.2
60°	3870.4	1567.6	934.4	869.3	854.0	938.2	1016.1	1023.8	1022.5	1067.2	1076.1
62.5°	3758.1	1519.1	887.2	802.9	792.7	877.0	953.6	984.2	990.6	1054.4	1065.9
65°	3493.8	1419.5	824.6	732.7	732.7	811.9	893.6	935.7	953.6	1039.1	1051.8
67.5°	3145.3	1302.0	760.8	672.7	670.2	749.3	829.7	873.1	901.2	1017.4	1025.0
70°	2610.5	1143.8	681.7	607.6	607.6	679.1	751.9	804.2	845.1	976.5	976.5
72.5°	1788.4	951.0	585.9	533.6	534.9	601.2	675.3	734.0	782.5	894.8	897.4
75°	1131.0	742.9	481.2	454.4	459.5	522.1	598.7	660.0	757.0	884.6	888.5
77.5°	601.2	522.1	383.0	376.6	383.0	440.4	525.9	610.2	759.5	767.2	754.4
80°	389.3	370.2	302.5	289.8	292.3	354.9	468.5	579.5	610.2	617.8	589.7
82.5°	211.9	234.9	214.5	201.7	201.7	277.0	399.5	460.8	437.8	363.8	347.2
85°	90.6	109.8	111.1	97.0	93.2	171.1	268.1	251.5	233.6	223.4	220.8
87.5°	25.5	35.7	35.7	26.8	20.4	47.2	53.6	15.3	0.0	1.3	2.6
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)