

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: P452934

Luminaire Tested: **GALN-SA3D-830-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452934
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3D-830-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18456 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

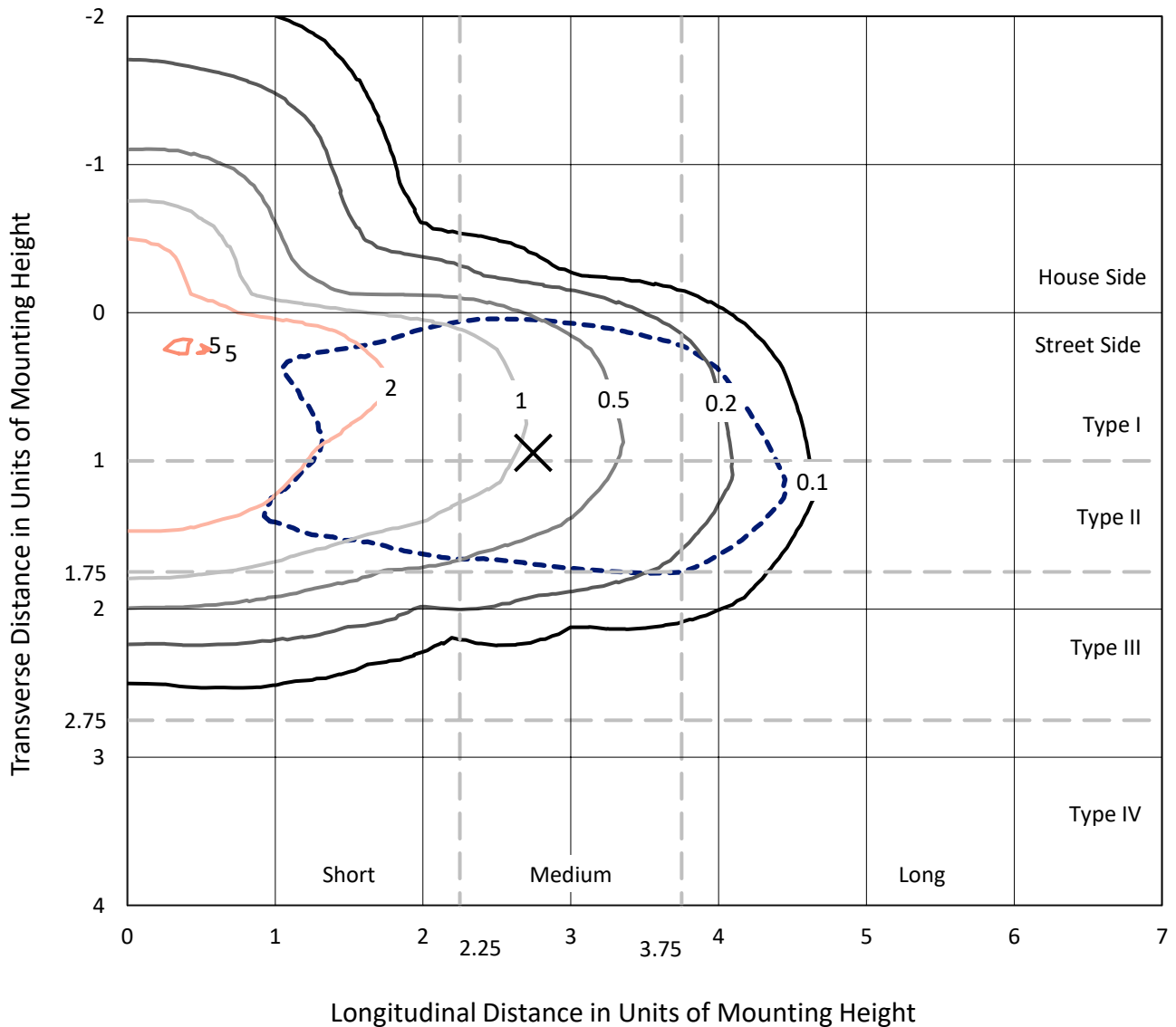
Input Watts (W): 184
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

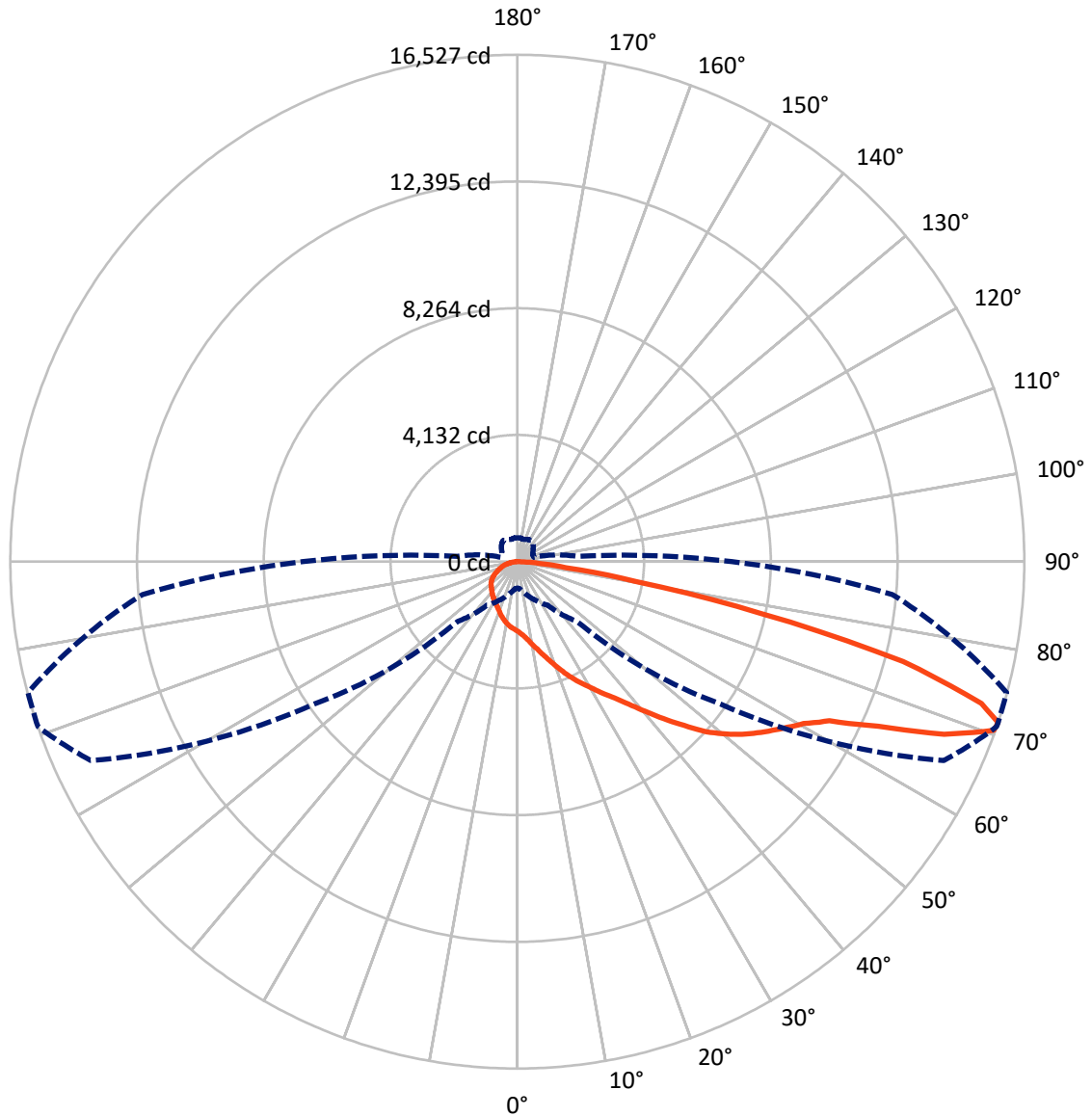
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3319.3	0.0	3319.3
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	15136.7	0.0	15136.7
	% Fixture	82.0	0.0	82.0
Total	Lumens	18456.0	0.0	18456.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.4	1.2
10°-20°	738.9	4.0
20°-30°	1291.3	7.0
30°-40°	1920.7	10.4
40°-50°	2829.8	15.3
50°-60°	3961.8	21.5
60°-70°	4431.2	24.0
70°-80°	2706.7	14.7
80°-90°	348.2	1.9
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°	18456.0	100.0
0°-180°	18456.0	100.0

Coefficient of Utilization



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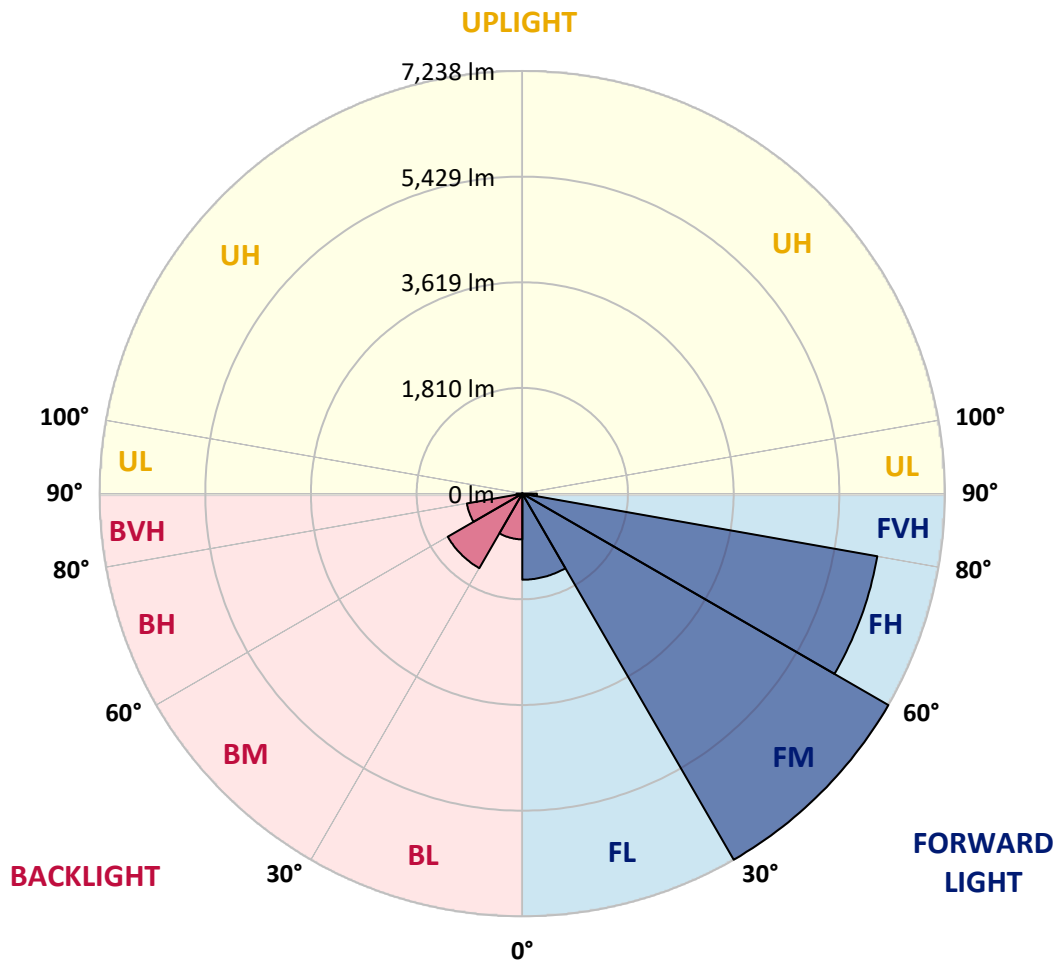
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1474.6	8.0			
FM	(30°-60°)	7238.1	39.2			
FH	(60°-80°)	6173.5	33.4			G3/7500
FVH	(80°-90°)	250.5	1.4			G3/500
BL	(0°-30°)	783.0	4.2	B2/1000		
BM	(30°-60°)	1474.2	8.0	B2/2500		
BH	(60°-80°)	964.4	5.2	B2/1000		G2/1000
BVH	(80°-90°)	97.7	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-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	2265.1	2265.1	2265.1	2265.1	2265.1	2265.1	2265.1	2265.1	2265.1	2265.1	2265.1
2.5°	2514.6	2502.5	2503.5	2486.2	2463.9	2439.6	2405.1	2374.7	2350.3	2336.1	2294.5
5°	2786.5	2774.3	2759.1	2721.6	2705.4	2645.5	2569.4	2500.4	2447.7	2418.3	2335.1
7.5°	3006.6	3003.6	2999.5	2978.2	2936.6	2853.5	2788.5	2668.8	2590.7	2534.9	2392.9
10°	3142.5	3147.6	3150.7	3154.7	3137.5	3093.9	3004.6	2853.5	2754.0	2683.0	2468.0
12.5°	3211.5	3216.6	3233.8	3271.4	3294.7	3289.6	3216.6	3068.5	2931.6	2838.2	2548.1
15°	3254.1	3262.2	3292.7	3342.4	3420.5	3470.2	3434.7	3297.7	3147.6	3037.1	2643.5
17.5°	3300.8	3309.9	3343.4	3414.4	3516.9	3624.4	3662.9	3545.3	3381.9	3250.1	2750.0
20°	3327.2	3339.3	3387.0	3480.3	3600.0	3756.2	3884.1	3822.2	3643.7	3497.6	2872.7
22.5°	3369.8	3379.9	3420.5	3519.9	3662.9	3858.7	4105.2	4092.0	3934.8	3746.1	3007.6
25°	3485.4	3501.6	3521.9	3581.8	3719.7	3963.2	4288.8	4380.1	4216.8	4005.8	3131.4
27.5°	3703.5	3716.7	3715.7	3723.8	3801.9	4053.5	4448.1	4665.1	4496.7	4268.5	3251.1
30°	3952.0	3957.1	3961.2	3942.9	3960.1	4145.8	4594.1	4947.1	4778.7	4538.3	3355.6
32.5°	4254.3	4264.5	4230.0	4183.3	4169.1	4282.7	4714.8	5229.1	5112.5	4812.2	3459.0
35°	4611.4	4637.7	4567.8	4485.6	4427.8	4479.5	4877.1	5517.2	5454.3	5162.2	3596.0
37.5°	5019.2	5051.6	4986.7	4825.4	4743.2	4757.4	5089.1	5873.3	5886.4	5560.8	3799.9
40°	5352.9	5395.5	5397.5	5169.3	5044.5	5060.7	5358.0	6256.7	6407.8	6053.8	4040.3
42.5°	5573.0	5614.6	5658.2	5524.3	5393.5	5485.8	5671.4	6672.6	6994.1	6652.3	4376.0
45°	5814.4	5852.0	5876.3	5815.4	5742.4	5981.8	6049.8	7114.9	7619.0	7320.8	4743.2
47.5°	6094.4	6136.0	6159.3	6101.5	6074.1	6417.0	6457.5	7527.7	8286.5	7970.0	5149.0
50°	6467.7	6499.1	6487.0	6450.4	6444.4	6750.7	6849.1	7914.2	8837.3	8668.9	5570.0
52.5°	6932.3	6969.8	6983.0	6931.3	6907.9	6989.1	7164.6	8266.2	9338.4	9269.4	6019.3
55°	7213.3	7273.1	7473.9	7555.1	7610.9	7297.4	7504.4	8654.7	9787.8	9902.4	6502.2
57.5°	6853.1	6930.2	7379.6	7785.4	8309.8	8068.4	7986.2	9060.4	10237.1	10516.1	7080.4
60°	5974.7	5991.9	6571.2	7318.7	8373.7	9059.4	8991.5	9705.6	10724.0	11134.8	7842.2
62.5°	4144.8	4181.3	4866.0	6058.9	7584.5	9416.5	10701.7	10819.4	11421.9	12061.0	8959.0
65°	2137.3	2089.6	2713.5	3808.0	5718.1	8568.5	12087.3	12867.4	12935.4	13509.5	10531.3
67.5°	1315.7	1337.0	1629.1	2223.5	3380.9	6227.3	11942.3	15369.9	15011.8	15287.7	11991.0
70°	988.0	1014.4	1215.2	1521.6	2061.2	3560.5	9604.1	15976.5	16476.6	16405.6	12435.3
71°	859.2	886.6	1095.5	1384.6	1731.5	2748.0	8091.7	15341.5	16527.3	16515.1	12267.9
72.5°	732.4	749.6	912.9	1172.6	1459.7	1926.3	6079.2	13759.0	15822.3	16227.0	11670.4
75°	575.2	588.3	661.4	894.7	1149.3	1182.8	3262.2	10315.2	12995.2	13766.1	9715.7
77.5°	468.6	477.8	515.3	664.4	886.6	837.9	1711.3	6714.2	8141.4	8917.4	5723.1
80°	372.3	382.4	404.7	450.4	664.4	597.5	816.6	3402.2	3932.8	3924.6	2284.4
82.5°	289.1	292.1	318.5	330.7	454.4	424.0	442.3	1440.4	1595.6	1648.4	824.7
85°	182.6	191.7	282.0	253.6	271.9	248.5	218.1	572.1	705.0	694.9	329.7
87.5°	55.8	58.8	95.4	107.5	120.7	108.5	80.1	168.4	205.9	223.2	82.2
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°	2265.1	2265.1	2265.1	2265.1	2265.1	2265.1	2265.1	2265.1	2265.1	2265.1	2265.1
2.5°	2278.3	2267.1	2227.6	2195.1	2164.7	2131.2	2102.8	2094.7	2087.6	2084.6	2083.5
5°	2299.6	2266.1	2188.0	2124.1	2073.4	2026.7	1997.3	1984.1	1970.9	1970.9	1975.0
7.5°	2330.0	2269.2	2148.5	2053.1	1989.2	1945.6	1924.3	1922.2	1925.3	1928.3	1929.4
10°	2363.5	2267.1	2090.6	1972.0	1915.1	1894.9	1895.9	1913.1	1929.4	1941.5	1943.6
12.5°	2396.0	2255.0	2022.7	1895.9	1859.4	1863.4	1891.8	1930.4	1961.8	1979.1	1980.1
15°	2432.5	2235.7	1940.5	1823.9	1811.7	1843.1	1895.9	1954.7	2002.4	2030.8	2033.8
17.5°	2462.9	2203.2	1854.3	1753.9	1769.1	1826.9	1899.9	1976.0	2033.8	2069.3	2075.4
20°	2497.4	2161.6	1765.0	1686.9	1730.5	1808.6	1891.8	1974.0	2033.8	2068.3	2076.4
22.5°	2524.8	2102.8	1679.8	1632.1	1696.0	1786.3	1864.4	1930.4	1979.1	1997.3	2009.5
25°	2535.9	2028.8	1599.7	1587.5	1668.7	1749.8	1802.6	1840.1	1855.3	1853.3	1858.3
27.5°	2529.9	1943.6	1530.7	1552.0	1634.2	1693.0	1719.4	1716.3	1688.9	1663.6	1675.8
30°	2504.5	1842.1	1472.9	1515.5	1589.5	1622.0	1617.9	1578.4	1526.6	1479.0	1482.0
32.5°	2458.9	1732.6	1419.1	1473.9	1526.6	1540.8	1513.5	1461.7	1387.7	1325.8	1316.7
35°	2420.3	1628.1	1371.4	1426.2	1463.7	1456.6	1430.3	1363.3	1296.4	1241.6	1232.5
37.5°	2414.2	1538.8	1325.8	1372.5	1393.8	1383.6	1351.2	1294.3	1270.0	1228.4	1223.3
40°	2446.7	1475.9	1279.1	1315.7	1325.8	1317.7	1282.2	1249.7	1272.0	1261.9	1261.9
42.5°	2534.9	1442.4	1237.5	1258.8	1267.0	1273.0	1247.7	1220.3	1247.7	1201.0	1185.8
45°	2674.9	1443.5	1200.0	1203.1	1227.4	1248.7	1231.5	1190.9	1176.7	1083.4	1065.1
47.5°	2880.8	1478.0	1169.6	1150.3	1193.9	1229.4	1205.1	1146.2	1083.4	1021.5	1010.3
50°	3121.2	1539.8	1142.2	1095.5	1149.3	1205.1	1186.8	1117.8	1052.9	1015.4	1008.3
52.5°	3388.0	1617.9	1108.7	1034.7	1094.5	1193.9	1190.9	1113.8	1024.5	999.2	993.1
55°	3717.7	1695.0	1067.1	963.7	1045.8	1184.8	1179.7	1080.3	1018.4	1000.2	998.1
57.5°	4101.1	1806.6	1007.3	891.6	990.0	1147.3	1136.1	1060.0	998.1	985.0	983.9
60°	4718.9	1980.1	922.1	825.7	933.2	1081.3	1095.5	1025.5	965.7	962.6	961.6
62.5°	5531.4	2223.5	833.8	757.7	867.3	996.1	1036.7	978.9	931.2	946.4	948.4
65°	6653.3	2428.4	742.5	699.9	794.3	914.0	980.9	935.3	892.7	922.1	922.1
67.5°	7384.7	2432.5	659.3	640.1	720.2	845.0	922.1	883.5	842.9	892.7	894.7
70°	7232.5	2131.2	590.4	577.2	648.2	770.9	857.2	826.7	780.1	824.7	808.5
71°	6987.0	1963.8	563.0	552.8	619.8	735.4	826.7	801.4	754.7	784.1	775.0
72.5°	6595.5	1705.2	518.3	520.4	577.2	690.8	784.1	757.7	711.1	727.3	724.3
75°	5575.0	1489.1	443.3	452.4	496.0	614.7	698.9	678.6	630.9	630.9	627.9
77.5°	3485.4	1040.8	368.2	373.3	421.0	526.5	600.5	583.3	537.6	522.4	518.3
80°	1300.4	537.6	288.1	294.2	323.6	414.9	497.0	480.8	434.2	416.9	400.7
82.5°	492.0	269.8	212.0	206.9	238.4	316.5	389.5	370.2	333.7	292.1	280.0
85°	185.6	133.9	129.8	125.8	140.0	187.7	241.4	237.4	198.8	169.4	166.4
87.5°	48.7	43.6	50.7	37.5	39.6	35.5	36.5	15.2	7.1	3.0	2.0
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)