

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: P192320

Luminaire Tested: **GLEON-AF-02-LED-E1-T4FT-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192320
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-02-LED-E1-T4FT-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9899 lumens
Efficiency: N/A
Efficacy: 116.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 85
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: 25 FT

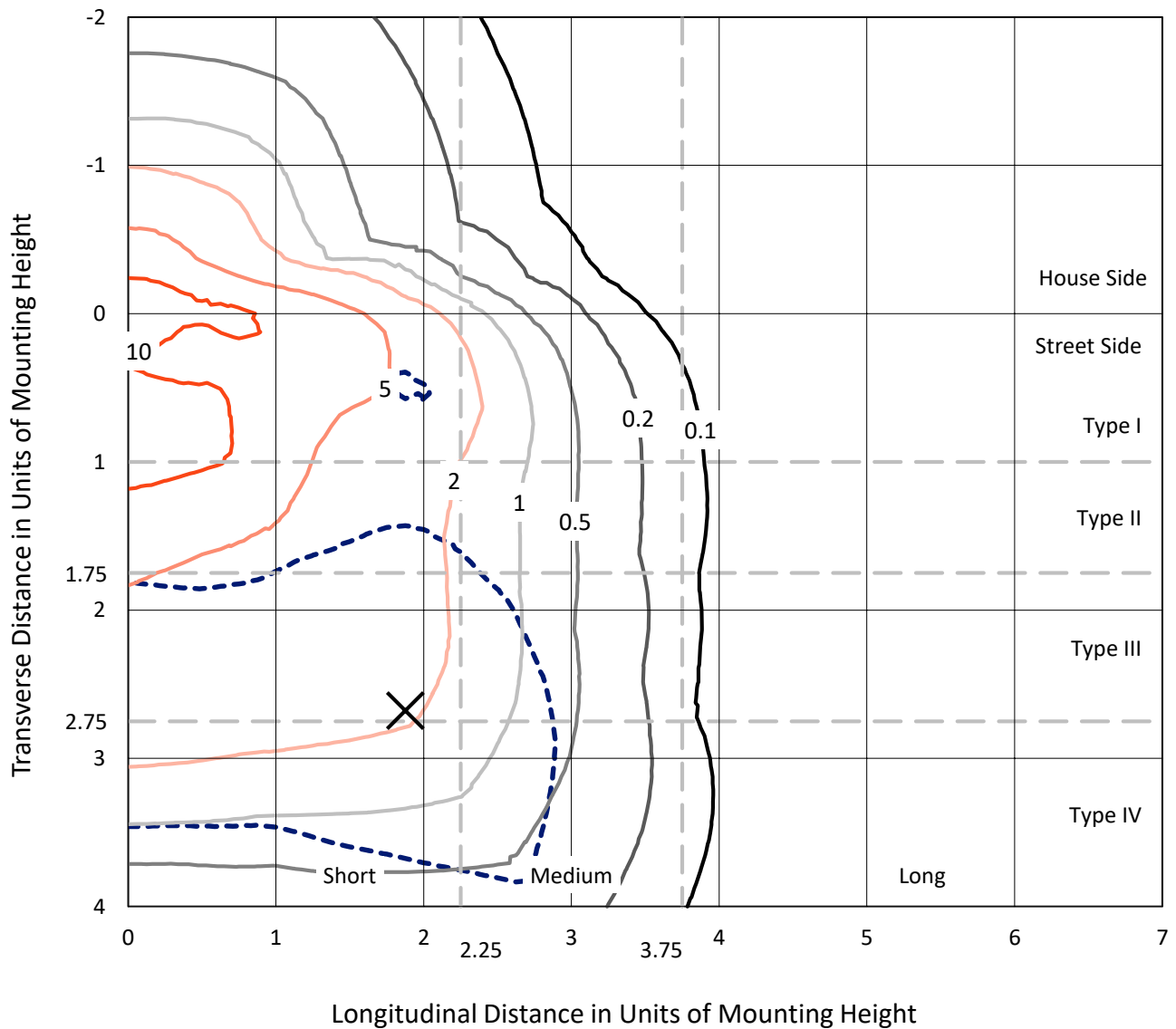


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

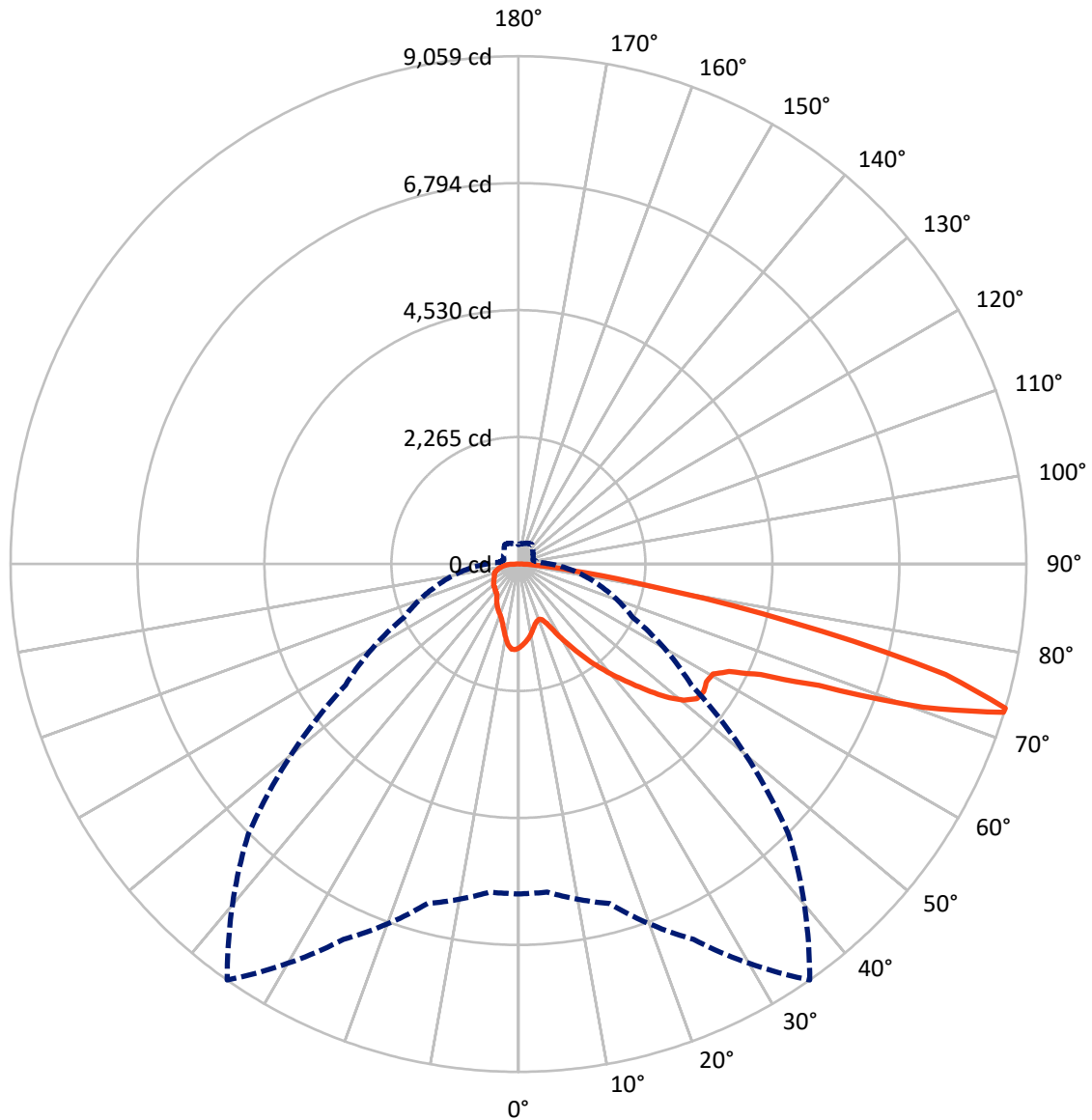


Based on 10 foot mounting height. Maximum calculated value = 14.9 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1888.0	0.0	1888.0
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	8011.0	0.0	8011.0
	% Fixture	80.9	0.0	80.9
Total	Lumens	9899.0	0.0	9899.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.3	1.4
10°-20°	337.6	3.4
20°-30°	545.7	5.5
30°-40°	915.1	9.2
40°-50°	1410.6	14.3
50°-60°	1892.5	19.1
60°-70°	2521.2	25.5
70°-80°	1922.9	19.4
80°-90°	218.0	2.2
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°	9899.0	100.0
0°-180°	9899.0	100.0

Coefficient of Utilization



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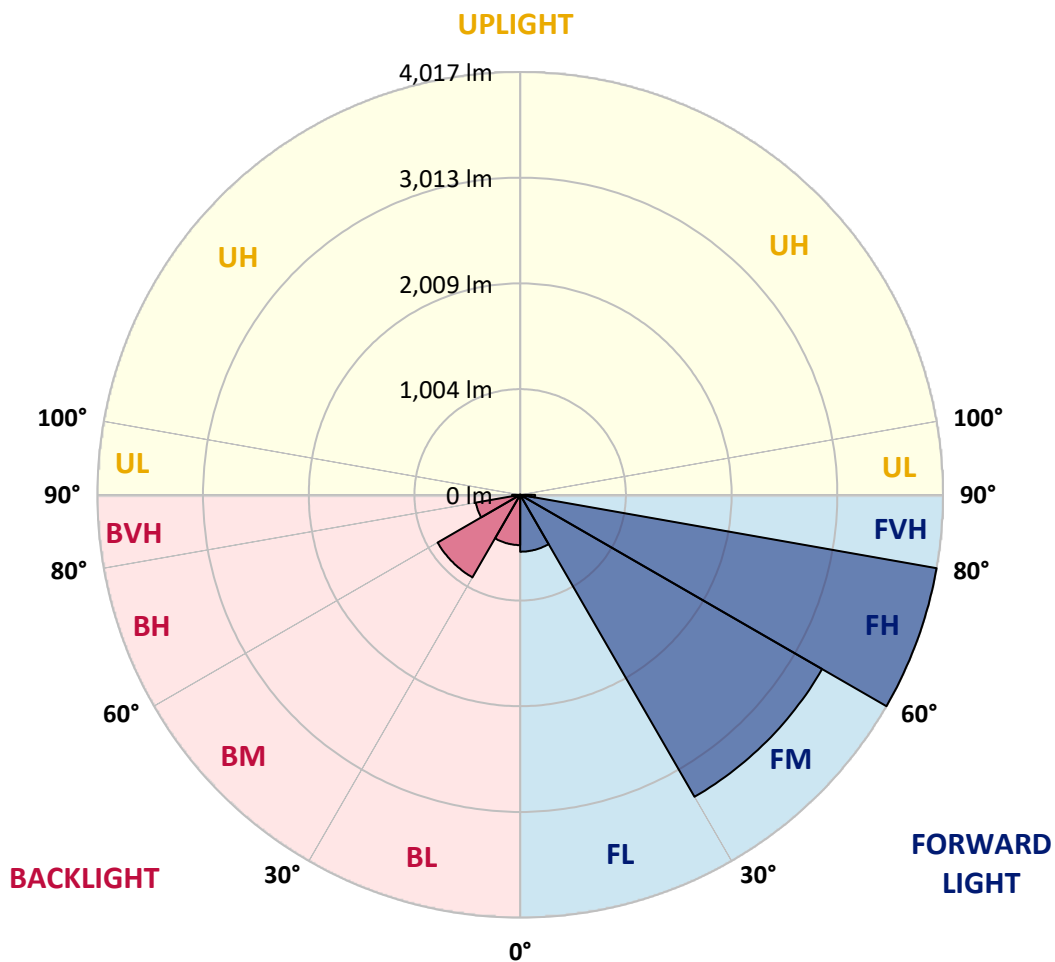
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	540.8	5.5			
FM	(30°-60°)	3312.3	33.5			
FH	(60°-80°)	4017.0	40.6			G2/5000
FVH	(80°-90°)	140.9	1.4			G2/225
BL	(0°-30°)	477.8	4.8	B1/500		
BM	(30°-60°)	906.0	9.2	B1/1000		
BH	(60°-80°)	427.1	4.3	B1/500		G1/500
BVH	(80°-90°)	77.1	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1494.1	1494.1	1494.1	1494.1	1494.1	1494.1	1494.1	1494.1	1494.1	1494.1	1494.1
2.5°	1435.1	1438.0	1434.6	1438.9	1446.1	1453.7	1458.9	1466.5	1475.1	1486.9	1489.8
5°	1367.6	1371.9	1371.9	1379.5	1393.3	1405.6	1417.1	1429.4	1447.5	1467.9	1476.0
7.5°	1293.5	1295.8	1300.1	1311.5	1331.5	1349.1	1365.2	1385.2	1409.9	1437.0	1451.3
10°	1204.1	1207.4	1214.1	1230.2	1257.3	1281.6	1304.9	1332.4	1363.8	1397.6	1415.6
12.5°	1140.9	1139.9	1142.8	1154.7	1178.4	1207.9	1241.6	1276.8	1315.3	1354.8	1376.7
15°	1119.5	1114.3	1103.3	1100.5	1113.3	1142.8	1181.8	1225.0	1271.1	1318.7	1345.8
17.5°	1132.8	1123.8	1093.8	1071.9	1070.0	1092.4	1133.7	1182.2	1235.5	1293.5	1327.2
20°	1216.5	1195.1	1121.4	1070.5	1052.9	1063.9	1100.0	1151.3	1214.1	1291.1	1334.3
22.5°	1416.6	1385.2	1228.8	1134.2	1074.8	1061.5	1088.6	1143.2	1216.5	1320.6	1375.7
25°	1708.0	1663.3	1413.3	1293.0	1170.3	1099.5	1105.7	1161.8	1250.2	1389.0	1455.6
27.5°	1938.1	1909.1	1654.3	1516.9	1344.3	1202.2	1161.3	1208.4	1319.1	1501.2	1569.2
30°	2075.0	2057.4	1911.9	1770.7	1566.3	1365.7	1267.8	1295.8	1427.0	1656.6	1712.7
32.5°	2233.7	2223.3	2152.0	2022.2	1805.9	1580.6	1436.5	1426.6	1571.6	1843.5	1869.1
35°	2398.2	2394.9	2353.0	2259.9	2063.1	1863.9	1660.4	1592.9	1728.9	2037.4	2021.2
37.5°	2551.3	2545.6	2521.3	2467.1	2332.1	2168.1	1888.6	1763.6	1898.6	2222.8	2151.0
40°	2833.2	2788.5	2705.3	2664.4	2604.0	2424.4	2069.7	1922.8	2074.5	2399.6	2263.2
42.5°	3176.9	3104.1	2949.2	2893.1	2884.5	2626.4	2193.3	2077.3	2251.8	2575.0	2373.5
45°	3447.3	3378.9	3245.3	3174.5	3205.8	2809.4	2317.4	2242.3	2434.3	2759.0	2487.1
47.5°	3735.9	3628.4	3451.6	3473.0	3541.5	2982.4	2443.8	2419.6	2634.5	2964.8	2628.3
50°	3746.3	3664.1	3586.6	3714.5	3821.0	3141.7	2602.1	2605.5	2879.3	3223.9	2816.1
52.5°	3529.1	3511.5	3634.6	3835.7	3989.2	3267.6	2782.3	2797.5	3192.5	3521.5	3022.4
55°	3453.0	3433.1	3575.2	3793.4	4012.1	3371.8	2977.7	3005.2	3571.4	3835.2	3223.4
57.5°	3638.4	3594.2	3603.7	3773.4	3956.4	3485.8	3190.6	3246.3	3983.1	4109.5	3352.7
60°	4156.6	4062.0	3882.3	3878.0	3986.4	3657.0	3436.9	3504.9	4410.9	4240.7	3302.3
62.5°	4883.4	4788.8	4452.3	4233.1	4216.9	3939.3	3739.2	3757.3	4658.1	4062.9	2994.8
65°	5670.1	5585.5	5209.5	4900.0	4750.8	4407.1	4090.5	3869.9	4577.3	3573.8	2456.7
67.5°	6625.1	6534.3	6211.1	5925.4	5781.8	5162.0	4337.2	3762.0	4064.4	2768.5	1766.0
70°	7293.0	7200.3	7072.9	7304.4	7655.7	6251.0	4369.1	3323.3	3035.7	1840.1	1062.9
72.5°	6421.7	6378.4	6610.9	7585.8	9049.0	6911.8	3949.3	2419.6	1763.1	976.9	615.1
73°	5883.6	5874.1	6270.5	7388.6	9059.0	6810.1	3765.4	2248.9	1512.1	864.2	562.4
75°	2656.8	2733.3	3602.3	5643.5	7870.6	5611.7	2650.1	1290.1	854.2	597.1	424.5
77.5°	638.4	665.0	1127.1	2680.1	4970.4	3344.2	1200.8	637.9	546.2	421.6	309.9
80°	271.9	280.9	434.0	990.2	2340.2	1346.7	553.3	427.4	377.9	294.2	217.2
82.5°	151.2	160.7	246.2	449.2	944.5	459.2	337.5	297.6	248.6	177.3	141.2
85°	85.6	90.8	144.0	251.0	400.3	184.4	202.0	197.8	140.2	91.3	69.4
87.5°	40.4	43.7	69.4	116.5	156.9	72.3	102.7	113.1	87.9	55.6	36.1
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1494.1	1494.1	1494.1	1494.1	1494.1	1494.1	1494.1	1494.1	1494.1	1494.1
2.5°	1493.1	1501.7	1511.7	1516.9	1521.6	1527.3	1533.0	1533.0	1534.0	1534.5
5°	1482.7	1500.2	1515.9	1522.6	1524.0	1524.0	1522.6	1515.0	1508.3	1511.2
7.5°	1460.8	1486.5	1499.8	1497.4	1479.3	1458.4	1440.8	1419.4	1408.5	1406.6
10°	1429.4	1458.9	1461.3	1437.5	1392.8	1348.1	1311.1	1274.9	1257.8	1253.5
12.5°	1394.7	1421.8	1406.6	1357.6	1285.9	1220.7	1173.7	1137.1	1120.9	1116.6
15°	1366.7	1385.2	1346.7	1269.7	1179.4	1110.4	1071.5	1044.4	1033.0	1029.6
17.5°	1351.9	1355.7	1285.4	1181.3	1085.3	1027.7	1003.5	990.7	986.4	984.0
20°	1359.1	1332.4	1226.9	1099.0	1008.2	967.8	962.1	958.8	957.9	956.4
22.5°	1394.7	1325.3	1173.2	1021.1	940.7	923.2	927.9	927.4	926.5	925.5
25°	1458.4	1331.5	1120.9	946.9	884.2	880.4	888.9	888.9	885.1	885.1
27.5°	1542.6	1344.3	1062.4	876.6	832.8	833.3	840.0	838.1	833.8	830.9
30°	1645.2	1352.4	994.0	813.3	784.8	782.9	784.8	776.7	763.9	763.0
32.5°	1750.3	1342.4	914.6	757.3	734.0	729.7	728.3	716.8	702.1	697.8
35°	1845.4	1305.8	833.8	712.6	685.5	676.0	682.6	678.8	665.5	662.2
37.5°	1914.8	1237.8	761.1	673.1	650.8	648.4	652.7	654.1	638.4	635.1
40°	1961.3	1145.6	698.8	639.8	644.1	635.1	620.8	610.8	606.1	604.7
42.5°	1998.9	1049.6	646.5	624.2	645.5	619.4	588.5	572.3	580.9	584.7
45°	2042.2	956.0	602.8	604.7	638.4	601.3	566.2	550.5	553.8	554.7
47.5°	2101.6	841.9	555.7	573.3	614.6	589.0	552.4	530.0	514.3	507.2
50°	2183.8	706.9	506.7	538.1	591.4	579.9	531.0	507.2	478.2	471.6
52.5°	2240.9	580.9	466.3	508.6	570.4	561.9	513.9	483.0	452.5	446.8
55°	2210.0	482.5	431.2	475.8	542.9	539.5	499.6	458.3	434.5	429.7
57.5°	2055.5	420.2	404.1	444.9	509.1	520.5	480.6	437.3	420.2	416.9
60°	1760.7	381.2	386.9	424.0	481.5	501.5	461.6	425.9	414.5	412.1
62.5°	1366.2	355.1	374.1	408.8	460.2	488.2	451.1	424.5	420.2	417.4
65°	978.8	334.2	360.3	393.6	440.7	475.8	447.3	422.6	423.5	421.2
67.5°	665.0	315.6	343.7	376.5	421.6	464.9	442.1	415.9	427.8	425.0
70°	465.4	297.6	324.2	354.6	397.9	449.7	432.6	406.0	405.0	393.6
72.5°	363.2	273.8	297.6	324.2	367.5	428.3	413.6	383.6	367.9	356.0
73°	346.5	268.1	290.9	317.5	360.8	423.1	408.3	377.4	359.8	348.9
75°	286.6	243.4	264.3	288.1	332.3	398.4	382.7	349.4	327.0	320.4
77.5°	225.3	208.2	228.2	249.6	292.8	362.2	344.6	312.8	300.4	294.7
80°	166.9	172.6	190.1	209.2	253.8	323.7	308.0	276.2	331.3	317.5
82.5°	117.4	130.7	146.9	164.0	213.0	286.2	267.2	234.4	242.4	201.6
85°	69.4	85.6	100.8	115.5	153.5	237.2	220.6	186.8	153.1	145.9
87.5°	40.4	47.5	51.8	67.0	105.5	178.7	155.4	138.3	79.4	53.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)