

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: P194070

Luminaire Tested: **GLEON-AF-02-LED-E1-T4FT-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194070
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-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1050mA 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: 9998 lumens
Efficiency: N/A
Efficacy: 88.5 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

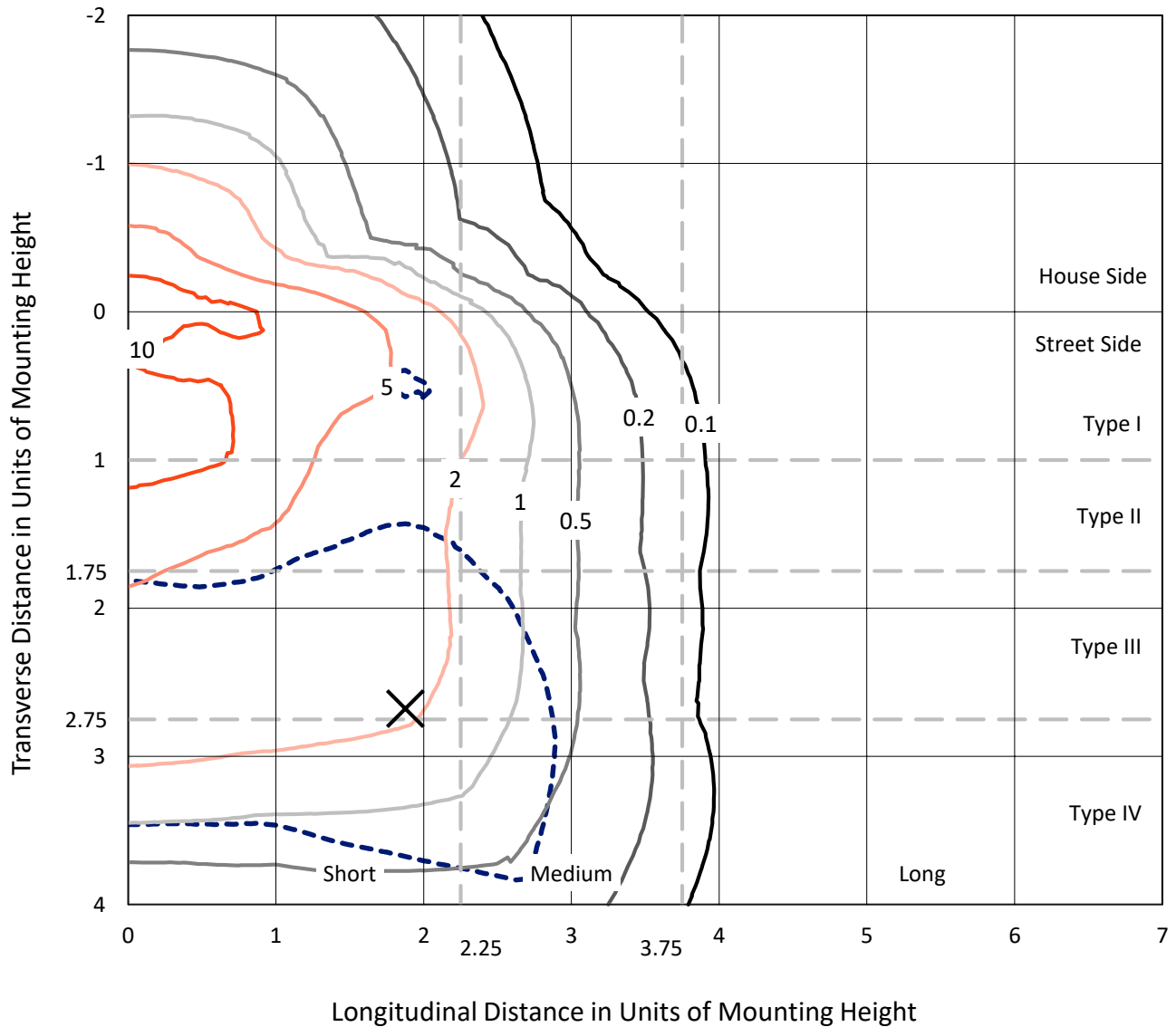
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

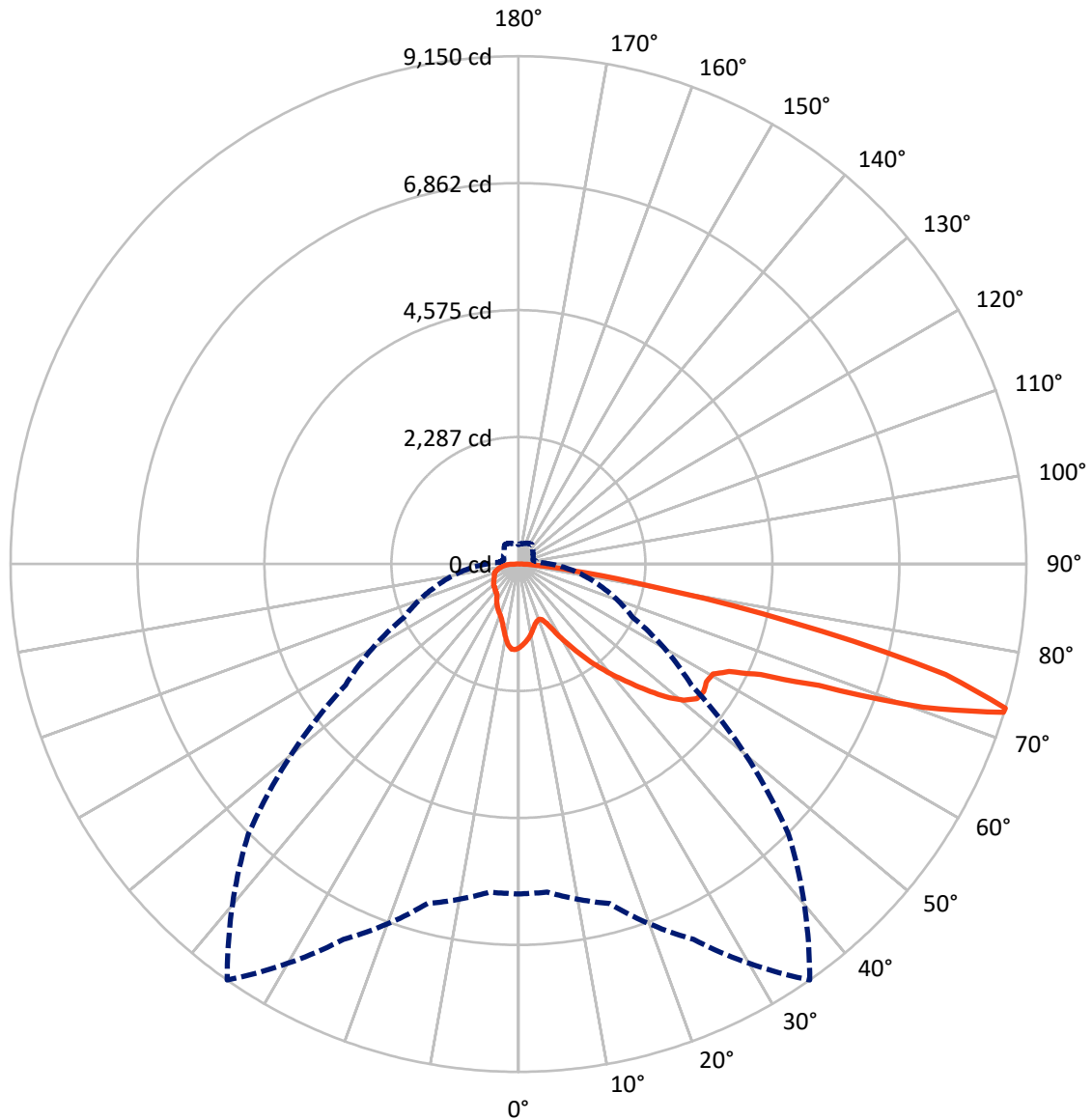
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.1 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	1906.9	0.0	1906.9
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	8091.1	0.0	8091.1
	% Fixture	80.9	0.0	80.9
Total	Lumens	9998.0	0.0	9998.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.6	1.4
10°-20°	341.0	3.4
20°-30°	551.2	5.5
30°-40°	924.3	9.2
40°-50°	1424.7	14.3
50°-60°	1911.5	19.1
60°-70°	2546.4	25.5
70°-80°	1942.2	19.4
80°-90°	220.1	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°	9998.0	100.0
0°-180°	9998.0	100.0



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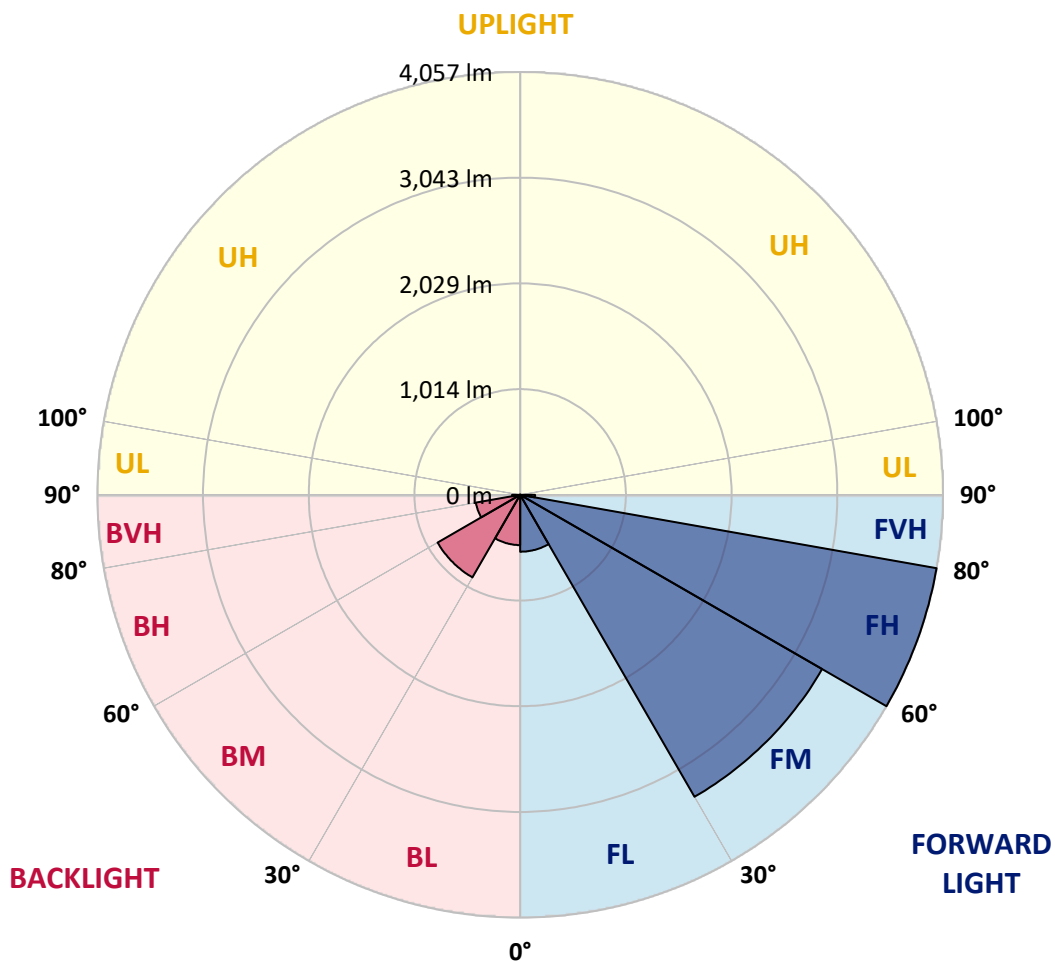
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	546.2	5.5			
FM	(30°-60°)	3345.4	33.5			
FH	(60°-80°)	4057.2	40.6			G2/5000
FVH	(80°-90°)	142.3	1.4			G2/225
BL	(0°-30°)	482.5	4.8	B1/500		
BM	(30°-60°)	915.1	9.2	B1/1000		
BH	(60°-80°)	431.4	4.3	B1/500		G1/500
BVH	(80°-90°)	77.8	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°	1509.0	1509.0	1509.0	1509.0	1509.0	1509.0	1509.0	1509.0	1509.0	1509.0	1509.0
2.5°	1449.5	1452.4	1449.0	1453.3	1460.5	1468.2	1473.5	1481.2	1489.8	1501.8	1504.7
5°	1381.3	1385.6	1385.6	1393.3	1407.2	1419.7	1431.2	1443.7	1462.0	1482.6	1490.8
7.5°	1306.4	1308.8	1313.1	1324.6	1344.8	1362.6	1378.9	1399.1	1424.0	1451.4	1465.8
10°	1216.1	1219.5	1226.2	1242.5	1269.9	1294.4	1317.9	1345.8	1377.5	1411.5	1429.8
12.5°	1152.3	1151.3	1154.2	1166.2	1190.2	1220.0	1254.1	1289.6	1328.5	1368.3	1390.4
15°	1130.7	1125.4	1114.4	1111.5	1124.4	1154.2	1193.6	1237.3	1283.8	1331.8	1359.2
17.5°	1144.1	1135.0	1104.7	1082.7	1080.7	1103.3	1145.1	1194.1	1247.8	1306.4	1340.5
20°	1228.6	1207.0	1132.6	1081.2	1063.5	1074.5	1111.0	1162.8	1226.2	1304.0	1347.7
22.5°	1430.7	1399.1	1241.1	1145.6	1085.5	1072.1	1099.5	1154.7	1228.6	1333.8	1389.5
25°	1725.1	1679.9	1427.4	1305.9	1182.0	1110.5	1116.8	1173.4	1262.7	1402.9	1470.1
27.5°	1957.4	1928.2	1670.8	1532.1	1357.8	1214.2	1172.9	1220.5	1332.3	1516.2	1584.9
30°	2095.7	2077.9	1931.0	1788.4	1582.0	1379.4	1280.5	1308.8	1441.3	1673.2	1729.9
32.5°	2256.1	2245.5	2173.5	2042.4	1824.0	1596.4	1450.9	1440.8	1587.3	1861.9	1887.8
35°	2422.2	2418.8	2376.6	2282.5	2083.7	1882.5	1677.0	1608.9	1746.2	2057.8	2041.5
37.5°	2576.8	2571.0	2546.5	2491.8	2355.5	2189.8	1907.5	1781.2	1917.6	2245.0	2172.5
40°	2861.5	2816.4	2732.3	2691.1	2630.1	2448.6	2090.4	1942.1	2095.2	2423.6	2285.8
42.5°	3208.6	3135.2	2978.6	2922.0	2913.4	2652.6	2215.3	2098.1	2274.3	2600.8	2397.2
45°	3481.8	3412.7	3277.8	3206.2	3237.9	2837.5	2340.6	2264.7	2458.7	2786.6	2512.0
47.5°	3773.2	3664.7	3486.1	3507.7	3576.9	3012.3	2468.3	2443.8	2660.8	2994.5	2654.6
50°	3783.8	3700.7	3622.5	3751.6	3859.2	3173.1	2628.2	2631.5	2908.1	3256.2	2844.2
52.5°	3564.4	3546.6	3671.0	3874.1	4029.1	3300.3	2810.1	2825.5	3224.5	3556.7	3052.6
55°	3487.6	3467.4	3611.0	3831.3	4052.2	3405.5	3007.5	3035.3	3607.1	3873.6	3255.7
57.5°	3674.8	3630.2	3639.8	3811.2	3996.0	3520.7	3222.5	3278.7	4022.9	4150.6	3386.3
60°	4198.1	4102.6	3921.1	3916.8	4026.3	3693.5	3471.2	3539.9	4455.0	4283.1	3335.4
62.5°	4932.2	4836.7	4496.8	4275.4	4259.1	3978.7	3776.6	3794.8	4704.7	4103.6	3024.7
65°	5726.8	5641.4	5261.6	4949.0	4798.3	4451.2	4131.4	3908.6	4623.0	3609.5	2481.2
67.5°	6691.4	6599.7	6273.2	5984.7	5839.7	5213.6	4380.6	3799.6	4105.0	2796.2	1783.6
70°	7366.0	7272.3	7143.7	7377.5	7732.3	6313.5	4412.8	3356.5	3066.0	1858.5	1073.5
72.5°	6485.9	6442.2	6677.0	7661.7	9139.5	6980.9	3988.8	2443.8	1780.8	986.6	621.3
73°	5942.4	5932.8	6333.2	7462.5	9149.6	6878.2	3803.0	2271.4	1527.3	872.9	568.0
75°	2683.4	2760.7	3638.3	5700.0	7949.3	5667.8	2676.7	1303.0	862.8	603.0	428.7
77.5°	644.8	671.7	1138.4	2706.9	5020.1	3377.6	1212.8	644.3	551.7	425.9	313.0
80°	274.6	283.7	438.3	1000.1	2363.6	1360.2	558.9	431.6	381.7	297.2	219.4
82.5°	152.7	162.3	248.7	453.7	954.0	463.8	340.9	300.6	251.1	179.1	142.6
85°	86.4	91.7	145.5	253.5	404.3	186.3	204.0	199.7	141.6	92.2	70.1
87.5°	40.8	44.2	70.1	117.6	158.4	73.0	103.7	114.3	88.8	56.2	36.5
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°	1509.0	1509.0	1509.0	1509.0	1509.0	1509.0	1509.0	1509.0	1509.0	1509.0
2.5°	1508.0	1516.7	1526.8	1532.1	1536.9	1542.6	1548.4	1548.4	1549.3	1549.8
5°	1497.5	1515.3	1531.1	1537.8	1539.3	1539.3	1537.8	1530.1	1523.4	1526.3
7.5°	1475.4	1501.3	1514.8	1512.4	1494.1	1473.0	1455.2	1433.6	1422.6	1420.7
10°	1443.7	1473.5	1475.9	1451.9	1406.7	1361.6	1324.2	1287.7	1270.4	1266.1
12.5°	1408.7	1436.0	1420.7	1371.2	1298.7	1232.9	1185.4	1148.4	1132.1	1127.8
15°	1380.3	1399.1	1360.2	1282.4	1191.2	1121.6	1082.2	1054.8	1043.3	1039.9
17.5°	1365.5	1369.3	1298.2	1193.1	1096.1	1038.0	1013.5	1000.6	996.2	993.8
20°	1372.7	1345.8	1239.2	1110.0	1018.3	977.5	971.8	968.4	967.4	966.0
22.5°	1408.7	1338.6	1184.9	1031.3	950.2	932.4	937.2	936.7	935.7	934.8
25°	1473.0	1344.8	1132.1	956.4	893.0	889.2	897.8	897.8	894.0	894.0
27.5°	1558.0	1357.8	1073.1	885.3	841.2	841.6	848.4	846.4	842.1	839.2
30°	1661.7	1365.9	1003.9	821.5	792.7	790.8	792.7	784.5	771.5	770.6
32.5°	1767.8	1355.9	923.7	764.8	741.3	737.0	735.5	724.0	709.1	704.8
35°	1863.8	1318.9	842.1	719.7	692.3	682.7	689.4	685.6	672.2	668.8
37.5°	1933.9	1250.2	768.7	679.8	657.3	654.9	659.2	660.6	644.8	641.4
40°	1981.0	1157.1	705.8	646.2	650.6	641.4	627.0	617.0	612.1	610.7
42.5°	2018.9	1060.1	653.0	630.4	652.0	625.6	594.4	578.1	586.7	590.5
45°	2062.6	965.5	608.8	610.7	644.8	607.3	571.8	556.0	559.3	560.3
47.5°	2122.6	850.3	561.3	579.0	620.8	594.9	557.9	535.3	519.5	512.3
50°	2205.7	713.9	511.8	543.5	597.3	585.7	536.3	512.3	483.0	476.3
52.5°	2263.3	586.7	471.0	513.7	576.1	567.5	519.0	487.8	457.1	451.3
55°	2232.1	487.3	435.5	480.6	548.3	544.9	504.6	462.8	438.8	434.0
57.5°	2076.0	424.4	408.1	449.4	514.2	525.7	485.4	441.7	424.4	421.1
60°	1778.4	385.1	390.8	428.3	486.4	506.5	466.2	430.2	418.7	416.3
62.5°	1379.9	358.6	377.9	412.9	464.8	493.1	455.6	428.7	424.4	421.5
65°	988.6	337.5	363.9	397.5	445.1	480.6	451.8	426.8	427.8	425.4
67.5°	671.7	318.8	347.1	380.3	425.9	469.6	446.5	420.1	432.1	429.2
70°	470.0	300.6	327.4	358.2	401.9	454.2	436.9	410.0	409.1	397.5
72.5°	366.8	276.5	300.6	327.4	371.1	432.6	417.7	387.5	371.6	359.6
73°	350.0	270.8	293.8	320.7	364.4	427.3	412.4	381.2	363.4	352.4
75°	289.5	245.8	266.9	291.0	335.6	402.3	386.5	352.9	330.3	323.6
77.5°	227.6	210.3	230.5	252.1	295.8	365.8	348.1	315.9	303.4	297.7
80°	168.5	174.3	192.0	211.3	256.4	327.0	311.1	278.9	334.6	320.7
82.5°	118.6	132.0	148.4	165.6	215.1	289.0	269.8	236.7	244.9	203.6
85°	70.1	86.4	101.8	116.7	155.1	239.6	222.8	188.7	154.6	147.4
87.5°	40.8	48.0	52.3	67.7	106.6	180.5	157.0	139.7	80.2	54.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)