

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: P200054

Luminaire Tested: **GPC-AF-02-LED-E1-T4W-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200054
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GPC-AF-02-LED-E1-T4W-7030-800
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9638.9 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 86
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

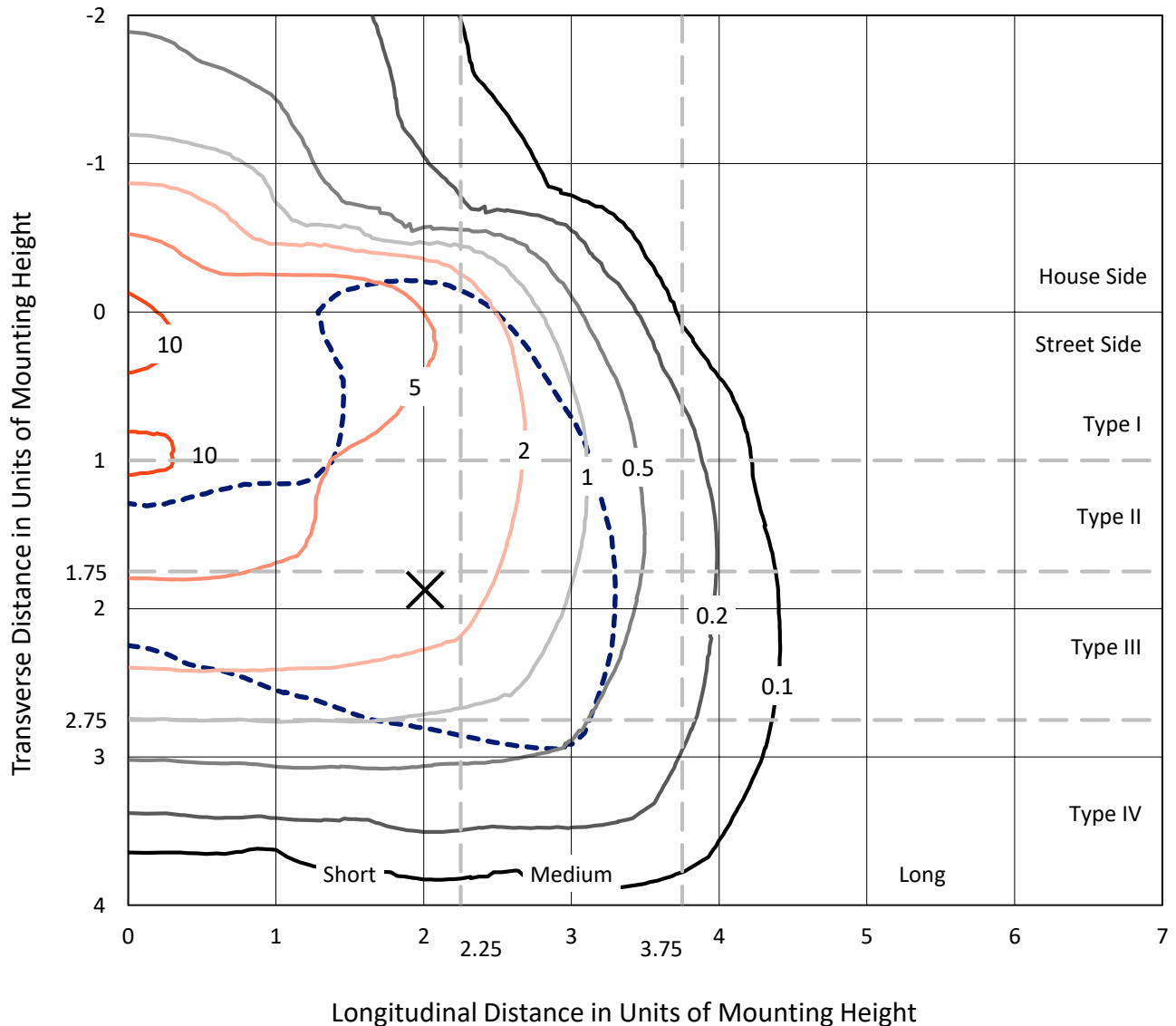


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Iso-Footcandle Lines of Horizontal Illumination

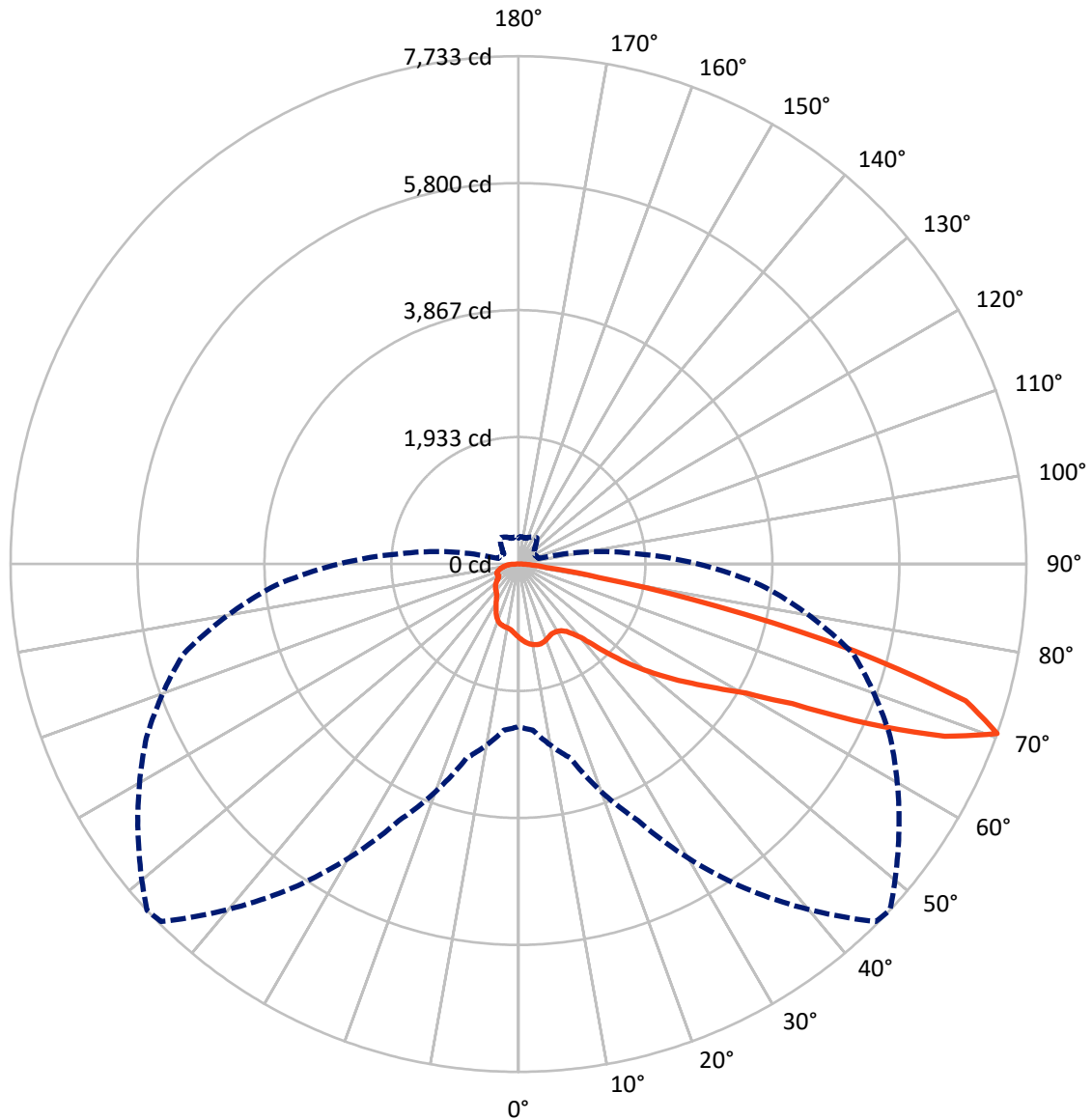
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.9 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2010.9	0.0	2010.9
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	7628.0	0.0	7628.0
	% Fixture	79.1	0.0	79.1
Total	Lumens	9638.9	0.0	9638.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.2	1.1
10°-20°	314.4	3.3
20°-30°	464.3	4.8
30°-40°	674.8	7.0
40°-50°	1214.4	12.6
50°-60°	2103.8	21.8
60°-70°	3002.8	31.2
70°-80°	1541.5	16.0
80°-90°	215.8	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°	9638.9	100.0
0°-180°	9638.9	100.0



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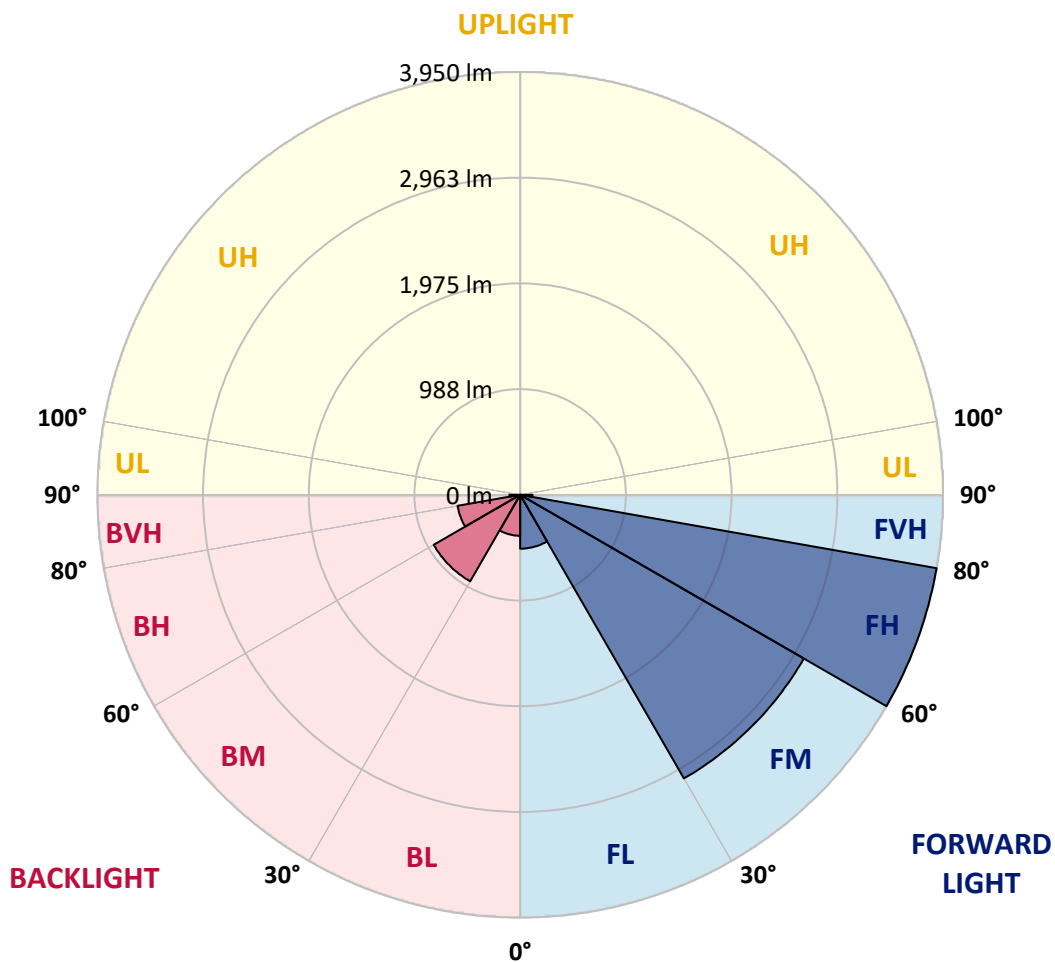
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	502.9	5.2			
FM	(30°-60°)	3059.6	31.7			
FH	(60°-80°)	3950.3	41.0			G2/5000
FVH	(80°-90°)	115.2	1.2			G2/225
BL	(0°-30°)	382.9	4.0	B1/500		
BM	(30°-60°)	933.4	9.7	B1/1000		
BH	(60°-80°)	593.9	6.2	B2/1000		G2/1000
BVH	(80°-90°)	100.6	1.0			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1118.4	1118.4	1118.4	1118.4	1118.4	1118.4	1118.4	1118.4	1118.4	1118.4	1118.4
2.5°	1184.1	1181.7	1180.8	1178.9	1176.5	1164.8	1162.5	1154.0	1142.3	1130.2	1117.5
5°	1262.0	1261.4	1256.3	1246.8	1231.9	1206.1	1200.0	1179.4	1151.7	1125.0	1098.3
7.5°	1330.3	1326.2	1316.2	1297.6	1271.2	1236.2	1227.6	1199.0	1161.1	1124.5	1088.4
10°	1380.5	1378.2	1356.7	1330.9	1296.6	1257.7	1247.8	1215.9	1174.2	1127.8	1082.8
12.5°	1409.1	1404.4	1379.6	1348.7	1307.9	1269.9	1260.0	1227.6	1180.8	1127.8	1074.8
15°	1407.3	1404.0	1379.2	1345.4	1304.1	1270.8	1262.0	1229.5	1179.4	1123.0	1064.5
17.5°	1369.8	1371.2	1350.0	1316.8	1283.0	1257.7	1249.7	1219.7	1169.9	1113.7	1052.2
20°	1304.1	1310.7	1296.6	1267.1	1248.3	1231.0	1225.8	1200.4	1155.4	1100.1	1039.2
22.5°	1238.5	1244.6	1238.9	1214.1	1211.2	1201.0	1198.1	1179.9	1142.8	1091.7	1031.2
25°	1190.2	1195.8	1194.9	1173.2	1181.7	1181.2	1178.9	1169.9	1140.0	1091.7	1032.6
27.5°	1177.0	1178.9	1177.0	1157.3	1169.1	1178.5	1176.5	1175.2	1148.5	1105.2	1050.4
30°	1222.1	1219.3	1204.7	1164.8	1175.6	1188.7	1186.9	1187.7	1173.8	1140.8	1090.3
32.5°	1401.7	1389.0	1343.1	1231.0	1202.4	1209.4	1210.3	1225.8	1228.2	1195.8	1152.1
35°	1670.3	1656.3	1596.8	1408.3	1285.3	1261.0	1261.0	1284.5	1298.4	1274.5	1248.3
37.5°	1954.9	1939.5	1907.6	1653.9	1459.8	1350.6	1348.1	1364.6	1384.8	1390.5	1397.0
40°	2278.6	2262.1	2271.1	1929.6	1703.2	1505.7	1472.5	1460.7	1515.1	1551.3	1603.7
42.5°	2632.6	2625.1	2628.3	2236.9	1980.4	1737.9	1690.5	1630.0	1695.7	1759.9	1870.1
45°	2960.4	2966.9	2963.6	2565.5	2288.9	2021.1	1970.9	1853.7	1917.9	2028.2	2207.7
47.5°	3247.4	3220.2	3262.4	2924.8	2634.5	2338.1	2276.2	2119.1	2184.3	2320.2	2624.2
50°	3595.8	3592.0	3530.1	3404.0	3052.2	2656.5	2575.3	2393.5	2494.7	2683.7	3148.9
52.5°	3962.1	3894.0	3837.3	3776.8	3495.4	2982.9	2883.5	2666.8	2859.6	3097.3	3788.6
55°	4037.0	4006.5	4076.9	4178.6	3922.6	3321.9	3206.1	3009.6	3270.3	3570.0	4526.2
57.5°	4197.4	4196.9	4342.3	4523.8	4362.5	3681.6	3564.8	3423.6	3732.3	4111.7	5309.2
60°	4305.8	4336.3	4606.4	4958.5	4794.4	4097.1	3989.7	3901.5	4257.4	4717.0	6039.0
62.5°	4362.5	4403.8	4772.3	5134.8	5404.9	4788.8	4681.3	4554.3	4952.4	5381.0	6465.6
65°	4126.6	4207.8	4746.6	5287.3	5939.6	5910.0	5861.6	5638.5	5821.4	5905.8	6311.4
67.5°	3473.9	3556.8	4184.3	5145.1	6321.2	6991.3	7001.7	6620.4	6355.9	5950.8	5306.5
70°	2475.0	2540.2	3059.4	4313.8	6030.4	7698.0	7733.2	7072.9	6249.5	5277.3	3707.3
72.5°	1175.2	1215.0	1706.4	2807.5	4785.4	7053.2	7121.2	6495.3	5314.0	3907.1	2022.5
75°	431.9	444.0	576.8	1194.4	2775.6	5201.4	5281.6	4656.1	3522.6	1945.2	770.5
77.5°	258.8	266.8	323.5	504.1	1091.7	2973.1	3091.7	2532.2	1539.5	724.1	378.9
80°	181.1	186.7	232.1	313.7	515.8	1132.9	1238.5	1033.5	613.4	458.2	275.8
82.5°	122.4	125.2	163.3	212.0	342.7	404.7	436.6	459.6	413.5	340.9	175.0
85°	80.2	83.0	110.7	139.8	218.1	209.1	213.8	270.5	302.0	231.6	97.0
87.5°	46.0	47.8	66.5	74.6	107.0	88.6	89.6	142.6	193.2	156.1	59.1
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°	1118.4	1118.4	1118.4	1118.4	1118.4	1118.4	1118.4	1118.4	1118.4	1118.4	1118.4
2.5°	1114.2	1108.1	1094.4	1086.0	1078.1	1076.2	1072.9	1072.5	1072.0	1072.0	1070.5
5°	1089.4	1079.1	1057.9	1046.1	1036.4	1035.4	1034.9	1037.3	1038.2	1039.2	1037.8
7.5°	1073.4	1059.3	1033.0	1016.2	1004.4	1001.7	1006.3	1017.1	1024.2	1026.9	1025.5
10°	1063.5	1046.1	1015.7	997.4	987.6	986.2	992.3	1004.9	1019.5	1025.1	1024.7
12.5°	1052.2	1032.6	1000.3	981.0	975.3	978.2	986.2	997.9	1013.0	1021.8	1022.2
15°	1041.0	1018.1	984.8	967.9	965.6	969.2	976.8	985.7	997.4	1006.3	1007.3
17.5°	1027.5	1003.5	970.2	952.8	951.0	952.8	953.4	957.9	965.6	973.9	976.3
20°	1013.0	988.5	953.9	936.5	928.0	920.5	912.1	913.0	915.4	923.8	925.7
22.5°	1002.6	978.2	941.2	917.2	894.8	872.2	855.3	853.0	854.0	861.0	863.2
25°	1003.5	977.8	937.9	896.6	847.5	811.2	788.8	785.0	784.5	789.7	793.0
27.5°	1021.8	996.0	950.0	875.5	795.7	742.3	718.4	715.5	711.9	713.3	717.0
30°	1062.6	1038.7	979.6	854.0	740.0	674.7	650.0	647.2	642.0	639.6	642.5
32.5°	1129.2	1109.5	1022.7	833.3	684.2	617.1	591.7	585.7	582.5	579.6	582.0
35°	1239.9	1231.5	1080.5	810.8	634.9	572.5	549.6	540.2	535.5	540.8	544.4
37.5°	1413.4	1418.0	1156.0	775.6	597.0	543.0	523.8	513.0	506.0	510.2	514.4
40°	1659.1	1662.4	1239.4	725.9	564.1	525.6	505.0	495.2	485.3	477.8	477.4
42.5°	1981.8	1948.4	1321.5	672.0	526.2	514.9	491.8	479.7	464.7	444.0	439.9
45°	2364.4	2247.6	1383.9	610.1	483.5	501.7	477.4	460.5	437.0	414.5	412.2
47.5°	2805.1	2568.8	1414.3	545.9	443.6	482.5	459.6	432.7	403.2	392.0	390.6
50°	3343.6	2950.1	1428.9	483.5	408.9	457.2	433.8	402.3	377.5	375.2	373.7
52.5°	3956.4	3408.7	1433.5	432.3	380.3	424.4	412.7	382.2	362.5	364.4	364.4
55°	4597.8	3882.3	1369.8	395.3	354.0	390.6	398.6	374.2	357.9	365.3	368.1
57.5°	5186.9	4302.0	1169.1	366.7	329.2	364.8	393.5	381.8	370.5	401.0	402.8
60°	5639.0	4550.1	873.2	340.9	311.0	355.9	407.0	410.3	413.1	485.7	495.7
62.5°	5733.6	4467.5	600.3	320.7	302.4	363.4	431.9	432.3	429.1	479.7	485.7
65°	5299.0	3945.6	436.6	309.5	295.4	377.1	453.0	443.1	421.5	460.0	448.7
67.5°	4208.2	2972.6	363.4	301.0	285.0	376.1	475.5	453.0	417.4	450.7	432.3
70°	2731.6	1797.5	323.5	294.0	272.9	358.3	488.6	452.0	405.2	419.2	397.7
72.5°	1332.8	803.7	296.8	283.7	260.2	333.5	488.2	443.6	392.5	391.5	379.7
75°	521.5	368.1	272.5	268.2	238.7	305.3	475.1	431.5	377.5	362.5	358.3
77.5°	305.3	262.6	241.5	245.3	212.9	277.2	455.8	410.3	356.8	339.0	334.4
80°	222.3	196.4	205.9	212.0	181.9	249.0	430.1	384.5	333.9	342.7	336.2
82.5°	142.6	126.6	166.9	173.0	151.5	220.3	401.8	357.3	301.5	273.8	267.2
85°	72.6	80.2	124.2	131.7	116.8	181.1	367.6	321.2	265.0	228.0	231.6
87.5°	40.8	54.8	79.2	88.6	82.5	139.3	298.3	265.0	216.3	175.8	154.7
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)