

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: P270075

Luminaire Tested: **GPC-AF-02-LED-E1-T4FT-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270075
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: GPC-AF-02-LED-E1-T4FT-7027-800
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 2700K, 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: 8772.5 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - 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

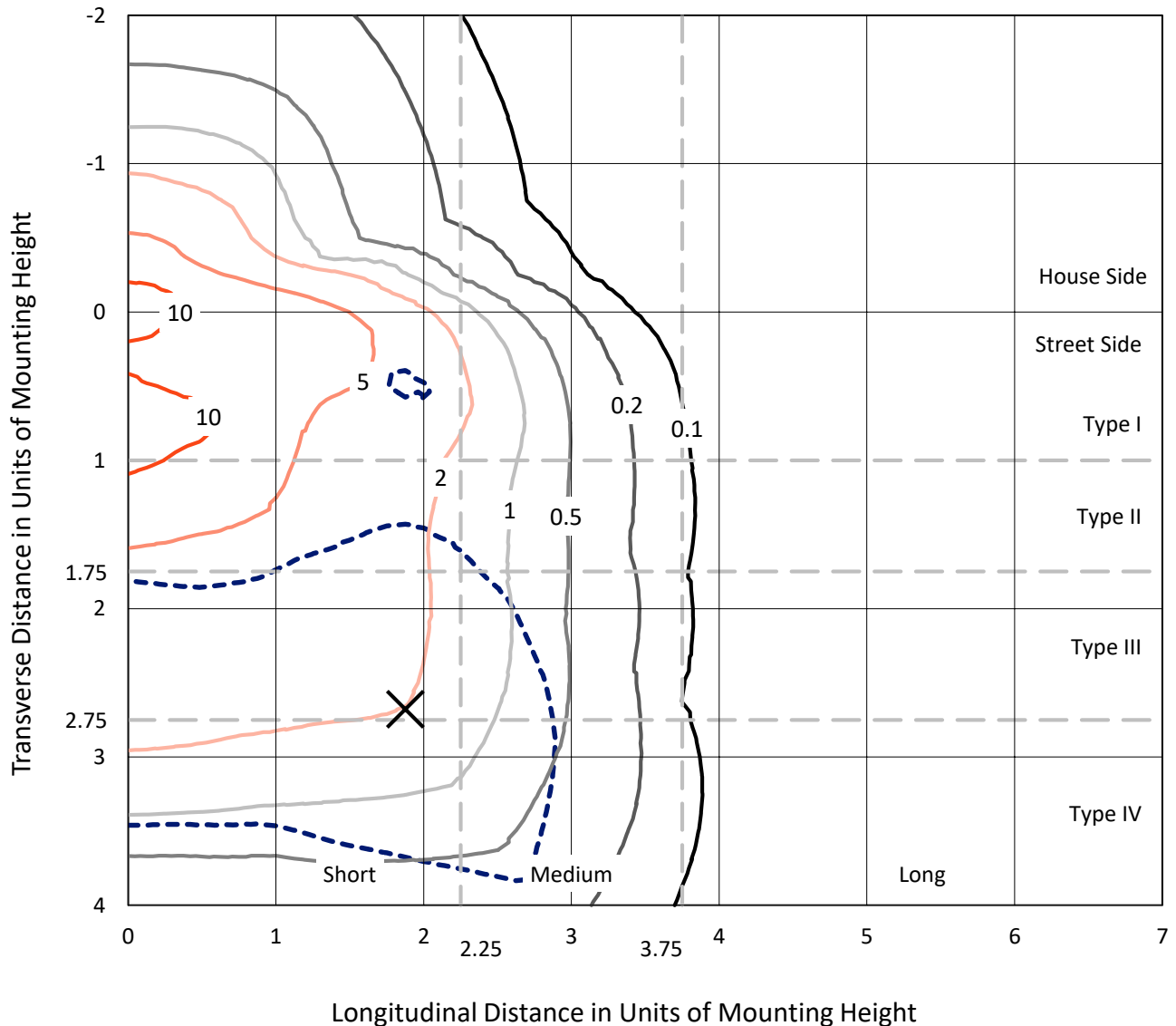


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Iso-Footcandle Lines of Horizontal Illumination

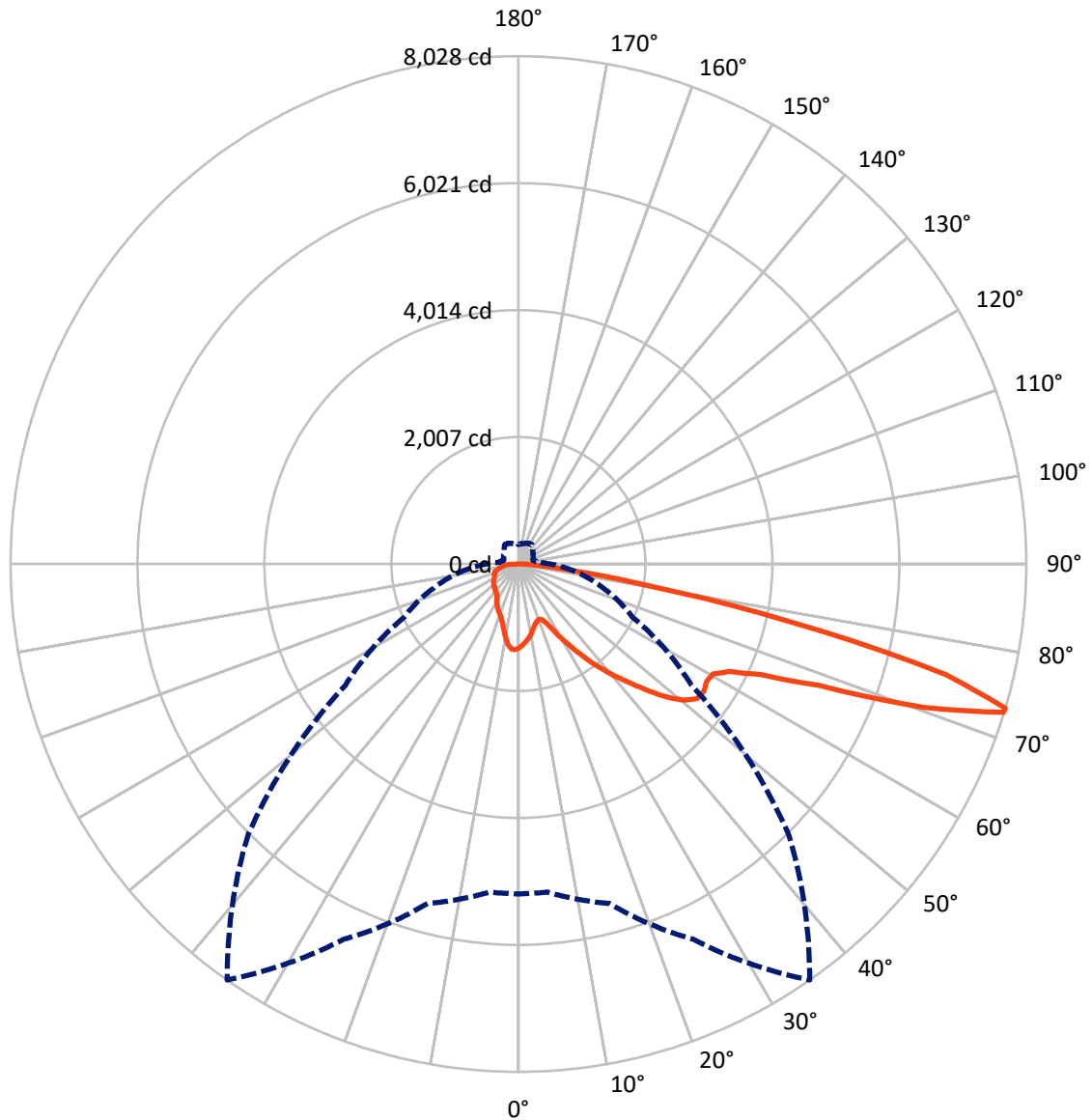
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.2 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	1673.2	0.0	1673.2
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	7099.3	0.0	7099.3
	% Fixture	80.9	0.0	80.9
Total	Lumens	8772.5	0.0	8772.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.9	1.4
10°-20°	299.2	3.4
20°-30°	483.6	5.5
30°-40°	811.0	9.2
40°-50°	1250.1	14.3
50°-60°	1677.2	19.1
60°-70°	2234.3	25.5
70°-80°	1704.1	19.4
80°-90°	193.2	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°	8772.5	100.0
0°-180°	8772.5	100.0



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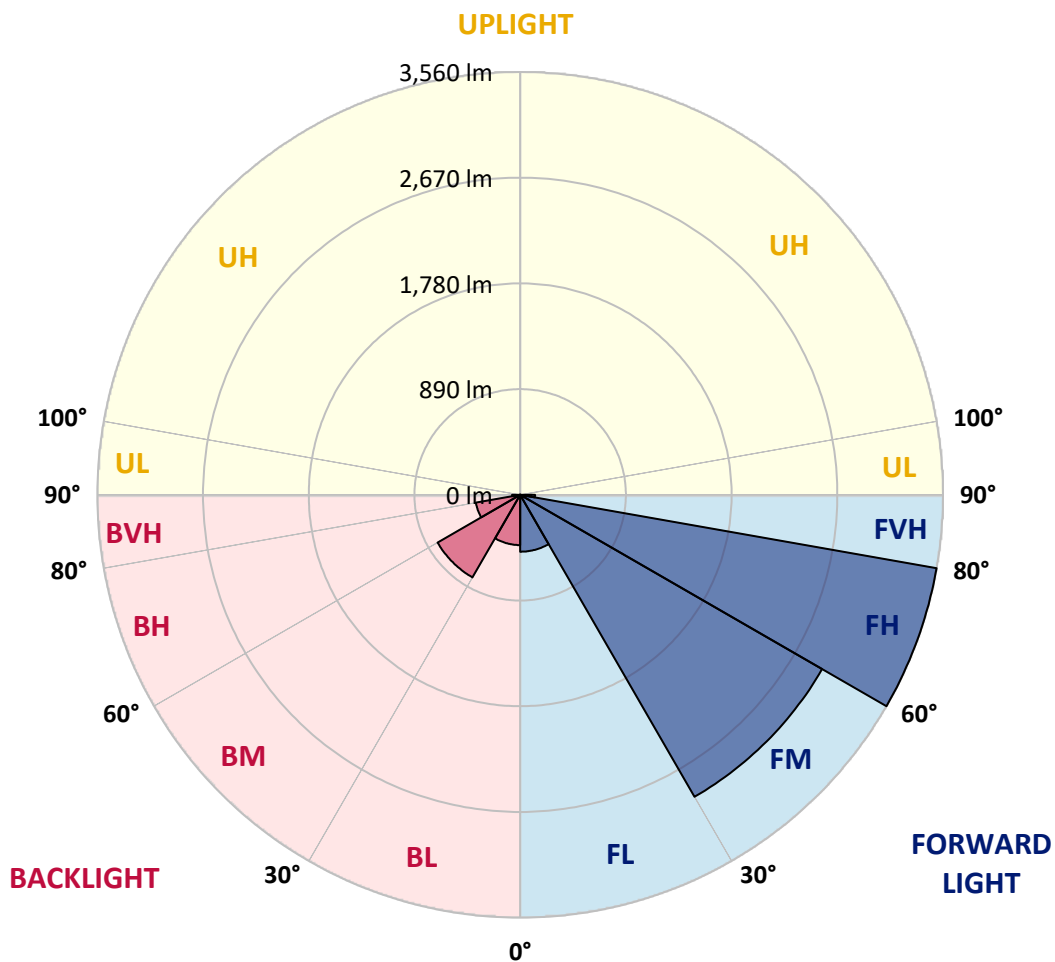
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	479.3	5.5			
FM (30°-60°)	2935.3	33.5			
FH (60°-80°)	3559.9	40.6			G2/5000
FVH (80°-90°)	124.8	1.4			G2/225
BL (0°-30°)	423.4	4.8	B1/500		
BM (30°-60°)	802.9	9.2	B1/1000		
BH (60°-80°)	378.5	4.3	B1/500		G1/500
BVH (80°-90°)	68.3	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°	1324.0	1324.0	1324.0	1324.0	1324.0	1324.0	1324.0	1324.0	1324.0	1324.0	1324.0
2.5°	1271.8	1274.3	1271.5	1275.1	1281.5	1288.2	1292.9	1299.6	1307.3	1317.8	1320.2
5°	1212.1	1215.8	1215.8	1222.6	1234.7	1245.7	1255.8	1266.7	1282.8	1300.8	1308.0
7.5°	1146.2	1148.4	1152.2	1162.2	1180.0	1195.6	1209.8	1227.5	1249.5	1273.4	1286.2
10°	1067.0	1070.1	1075.9	1090.3	1114.3	1135.7	1156.4	1180.8	1208.6	1238.6	1254.6
12.5°	1011.0	1010.2	1012.7	1023.3	1044.3	1070.4	1100.3	1131.5	1165.6	1200.7	1220.0
15°	992.1	987.4	977.7	975.2	986.6	1012.7	1047.2	1085.6	1126.5	1168.5	1192.6
17.5°	1003.9	996.0	969.4	950.0	948.3	968.1	1004.8	1047.8	1094.9	1146.2	1176.2
20°	1078.1	1059.0	993.7	948.7	933.1	942.9	974.8	1020.4	1075.9	1144.1	1182.4
22.5°	1255.4	1227.5	1088.9	1005.2	952.6	940.6	964.7	1013.2	1078.1	1170.3	1219.1
25°	1513.6	1473.9	1252.4	1145.9	1037.2	974.4	980.0	1029.5	1107.9	1230.9	1290.0
27.5°	1717.5	1691.8	1466.0	1344.3	1191.3	1065.4	1029.2	1070.9	1169.1	1330.4	1390.5
30°	1838.8	1823.2	1694.4	1569.2	1388.2	1210.2	1123.5	1148.4	1264.6	1468.1	1517.9
32.5°	1979.5	1970.3	1907.1	1792.1	1600.4	1400.6	1273.1	1264.3	1392.7	1633.7	1656.5
35°	2125.3	2122.3	2085.2	2002.7	1828.3	1651.9	1471.5	1411.6	1532.1	1805.6	1791.2
37.5°	2260.9	2255.9	2234.4	2186.4	2066.7	1921.4	1673.7	1563.0	1682.5	1969.9	1906.3
40°	2510.8	2471.1	2397.4	2361.1	2307.7	2148.4	1834.2	1704.1	1838.4	2126.6	2005.6
42.5°	2815.3	2750.9	2613.4	2563.9	2556.2	2327.5	1943.8	1840.9	1995.6	2282.1	2103.4
45°	3055.0	2994.4	2876.0	2813.2	2841.0	2489.7	2053.6	1987.1	2157.3	2445.0	2204.1
47.5°	3310.8	3215.6	3058.8	3077.8	3138.4	2643.1	2165.8	2144.3	2334.7	2627.5	2329.1
50°	3320.0	3247.2	3178.5	3291.7	3386.2	2784.1	2305.9	2309.0	2551.6	2857.0	2495.6
52.5°	3127.4	3111.9	3221.1	3399.1	3535.3	2895.7	2465.7	2479.1	2829.2	3120.7	2678.3
55°	3060.0	3042.4	3168.3	3361.6	3555.5	2988.0	2638.9	2663.3	3165.0	3398.7	2856.6
57.5°	3224.3	3185.2	3193.7	3344.0	3506.3	3089.1	2827.5	2876.8	3529.8	3641.9	2971.2
60°	3683.6	3599.7	3440.5	3436.6	3532.8	3240.7	3045.8	3106.0	3909.0	3758.1	2926.6
62.5°	4327.7	4243.9	3945.5	3751.4	3737.0	3491.1	3313.7	3329.7	4128.0	3600.5	2654.0
65°	5024.8	4949.9	4616.7	4342.3	4210.1	3905.6	3625.0	3429.5	4056.3	3167.1	2177.1
67.5°	5871.2	5790.7	5504.3	5251.1	5123.8	4574.4	3843.7	3333.9	3601.8	2453.5	1564.9
70°	6463.0	6380.9	6268.1	6473.1	6784.4	5539.7	3871.9	2945.1	2690.2	1630.8	942.0
72.5°	5690.9	5652.6	5858.6	6722.6	8019.2	6125.3	3499.8	2144.3	1562.5	865.6	545.1
73°	5214.0	5205.6	5556.9	6547.7	8028.1	6035.1	3336.8	1993.0	1340.0	765.9	498.4
75°	2354.5	2422.3	3192.3	5001.3	6974.9	4973.0	2348.6	1143.4	757.0	529.1	376.2
77.5°	565.8	589.4	998.8	2375.1	4404.7	2963.6	1064.1	565.4	484.0	373.6	274.6
80°	240.9	249.0	384.7	877.6	2073.8	1193.5	490.4	378.7	334.9	260.8	192.5
82.5°	133.9	142.4	218.2	398.0	837.0	406.9	299.0	263.7	220.4	157.2	125.1
85°	75.8	80.5	127.6	222.4	354.7	163.4	179.0	175.3	124.2	80.8	61.5
87.5°	35.8	38.7	61.5	103.2	139.0	64.0	91.0	100.3	78.0	49.2	32.0
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°	1324.0	1324.0	1324.0	1324.0	1324.0	1324.0	1324.0	1324.0	1324.0	1324.0
2.5°	1323.3	1330.7	1339.6	1344.3	1348.4	1353.6	1358.5	1358.5	1359.5	1359.9
5°	1314.0	1329.5	1343.4	1349.3	1350.6	1350.6	1349.3	1342.5	1336.7	1339.3
7.5°	1294.5	1317.4	1329.1	1326.9	1310.9	1292.4	1276.9	1257.8	1248.3	1246.5
10°	1266.7	1292.9	1294.9	1273.8	1234.4	1194.7	1161.9	1129.9	1114.6	1110.8
12.5°	1236.0	1260.1	1246.5	1203.1	1139.5	1081.7	1040.1	1007.7	993.3	989.6
15°	1211.2	1227.5	1193.5	1125.1	1045.2	984.1	949.5	925.6	915.5	912.5
17.5°	1198.1	1201.5	1139.1	1046.9	961.7	910.8	889.3	878.0	874.1	872.1
20°	1204.4	1180.8	1087.3	973.9	893.5	857.7	852.6	849.6	848.9	847.6
22.5°	1236.0	1174.5	1039.7	905.0	833.6	818.0	822.3	821.9	821.1	820.2
25°	1292.4	1180.0	993.3	839.1	783.5	780.2	787.8	787.8	784.4	784.4
27.5°	1367.0	1191.3	941.6	776.9	738.0	738.4	744.3	742.7	738.9	736.4
30°	1457.9	1198.5	880.9	720.8	695.5	693.9	695.5	688.3	677.0	676.2
32.5°	1551.2	1189.6	810.5	671.0	650.5	646.6	645.4	635.3	622.3	618.5
35°	1635.4	1157.2	738.9	631.5	607.4	599.0	605.0	601.5	589.7	586.9
37.5°	1696.9	1097.0	674.4	596.6	576.7	574.6	578.4	579.6	565.8	562.8
40°	1738.1	1015.3	619.2	567.0	570.9	562.8	550.2	541.3	537.0	535.8
42.5°	1771.4	930.1	572.8	553.1	572.1	549.0	521.6	507.3	514.8	518.1
45°	1809.7	847.2	534.1	535.8	565.8	533.0	501.8	487.8	490.7	491.6
47.5°	1862.5	746.0	492.5	508.0	544.7	521.9	489.4	469.8	455.8	449.5
50°	1935.3	626.4	449.1	476.9	524.0	513.9	470.5	449.5	423.8	417.9
52.5°	1985.9	514.8	413.3	450.8	505.6	497.9	455.4	428.0	401.1	396.1
55°	1958.5	427.7	382.0	421.7	481.1	478.2	442.8	406.2	385.1	380.8
57.5°	1821.6	372.3	358.1	394.3	451.2	461.3	425.8	387.6	372.3	369.5
60°	1560.4	337.9	343.0	375.9	426.8	444.4	409.1	377.5	367.3	365.3
62.5°	1210.7	314.6	331.6	362.2	407.8	432.7	399.7	376.2	372.3	369.9
65°	867.5	296.1	319.3	348.8	390.6	421.7	396.4	374.6	375.3	373.2
67.5°	589.4	279.7	304.5	333.6	373.6	412.1	391.8	368.7	379.2	376.6
70°	412.4	263.7	287.3	314.2	352.7	398.5	383.3	359.7	359.0	348.8
72.5°	321.9	242.6	263.7	287.3	325.6	379.5	366.5	340.0	326.1	315.6
73°	307.1	237.6	257.9	281.3	319.7	375.0	361.8	334.4	318.9	309.1
75°	254.0	215.8	234.2	255.3	294.5	353.0	339.1	309.6	289.9	284.0
77.5°	199.7	184.5	202.2	221.2	259.5	321.1	305.5	277.1	266.3	261.1
80°	148.0	152.9	168.5	185.4	224.9	286.9	272.9	244.8	293.7	281.3
82.5°	104.1	115.8	130.2	145.3	188.7	253.6	236.8	207.7	214.9	178.7
85°	61.5	75.8	89.3	102.3	136.1	210.3	195.6	165.6	135.6	129.4
87.5°	35.8	42.1	46.0	59.4	93.6	158.5	137.8	122.6	70.3	47.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)