

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: P193412

Luminaire Tested: **GLEON-AF-04-LED-E1-5WQ-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193412
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-04-LED-E1-5WQ-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13598 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 129
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

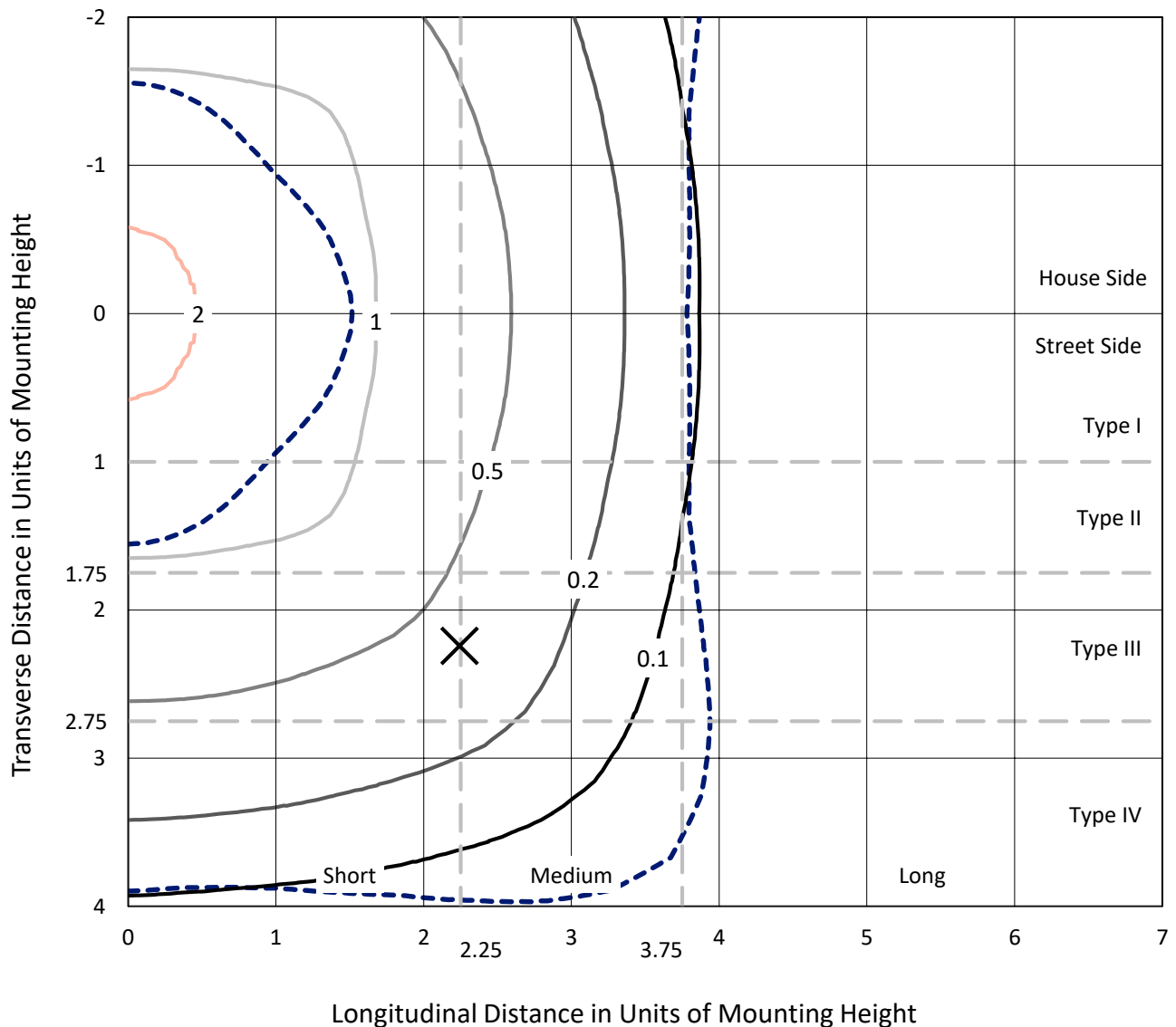


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

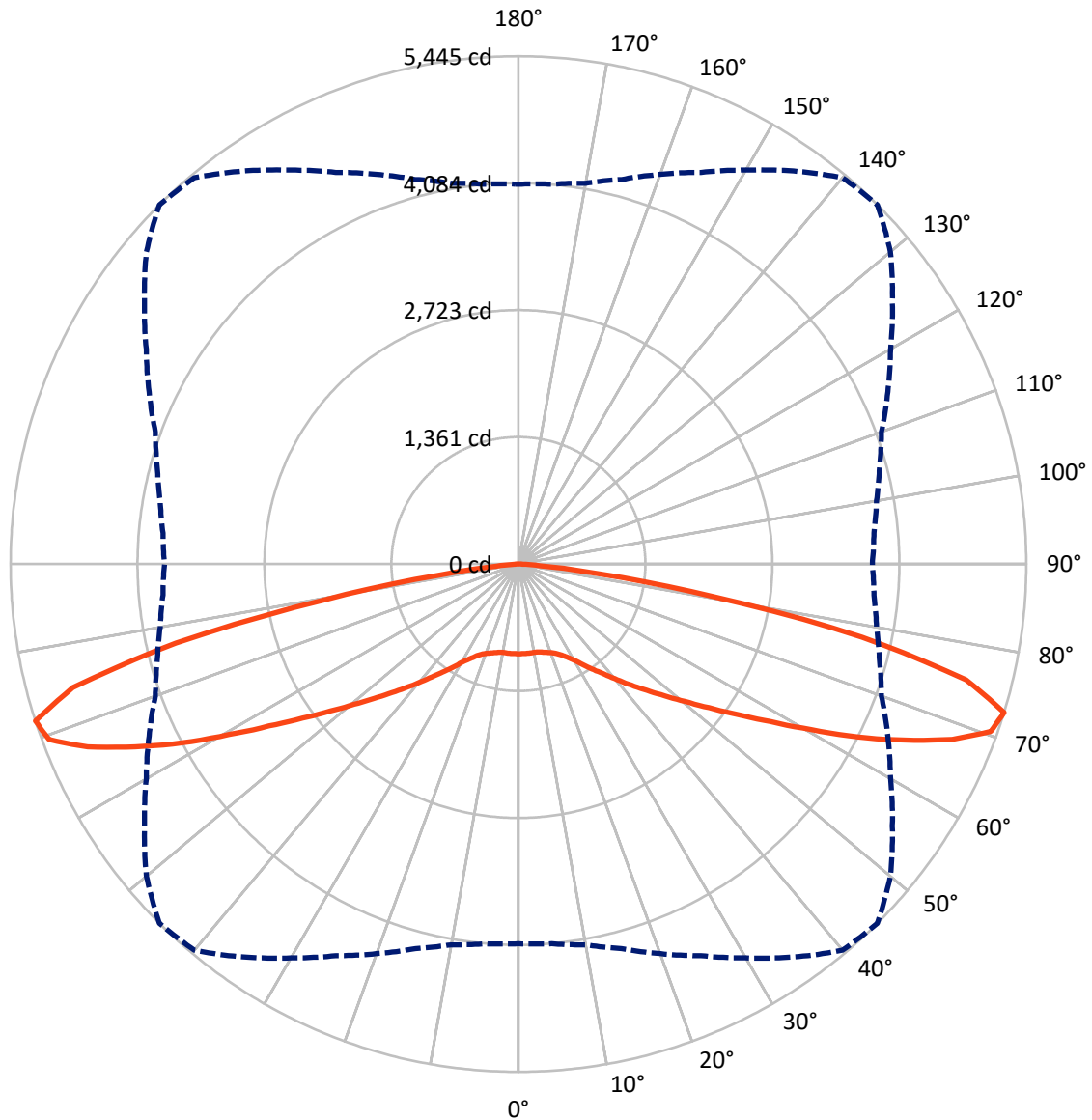


Based on 20 foot mounting height. Maximum calculated value = 2.4 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6799.0	0.0	6799.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6799.0	0.0	6799.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	13598.0	0.0	13598.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.0	0.7
10°-20°	279.3	2.1
20°-30°	510.3	3.8
30°-40°	879.9	6.5
40°-50°	1504.2	11.1
50°-60°	2438.1	17.9
60°-70°	4044.7	29.7
70°-80°	3562.4	26.2
80°-90°	287.2	2.1
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°	13598.0	100.0
0°-180°	13598.0	100.0



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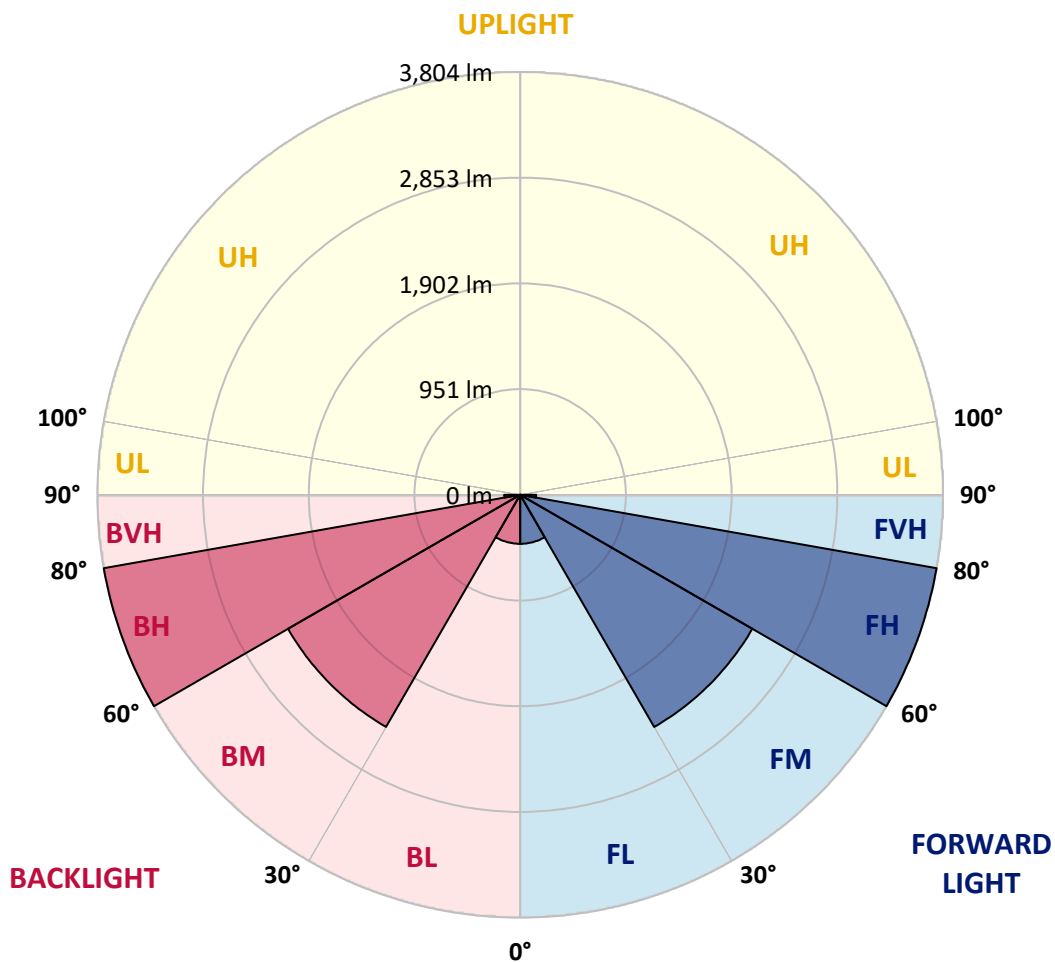
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	440.8	3.2			
FM (30°-60°)	2411.1	17.7			
FH (60°-80°)	3803.5	28.0			G2/5000
FVH (80°-90°)	143.6	1.1			G2/225
BL (0°-30°)	440.8	3.2	B1/500		
BM (30°-60°)	2411.1	17.7	B2/2500		
BH (60°-80°)	3803.5	28.0	B4/5000		G2/5000
BVH (80°-90°)	143.6	1.1			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	962.9	962.9	962.9	962.9	962.9	962.9	962.9	962.9	962.9	962.9	962.9
2.5°	962.9	963.6	964.2	963.6	963.6	962.9	962.3	962.9	962.3	961.1	961.7
5°	966.1	967.3	967.3	966.1	966.7	966.1	964.8	965.4	964.2	962.3	962.3
7.5°	969.8	970.4	970.4	969.2	969.8	968.6	967.3	966.7	965.4	962.9	961.1
10°	975.4	976.0	975.4	974.2	974.2	972.3	969.2	967.9	965.4	961.7	959.8
12.5°	981.7	982.3	981.7	980.4	979.8	976.7	974.2	972.3	970.4	967.3	964.2
15°	990.4	991.6	990.4	987.9	986.0	983.5	982.3	982.9	983.5	981.0	977.9
17.5°	1006.6	1007.2	1005.4	999.7	997.3	994.8	994.8	996.0	997.9	996.6	993.5
20°	1036.5	1034.7	1030.3	1023.4	1020.3	1016.0	1015.3	1016.0	1016.0	1015.3	1012.8
22.5°	1074.0	1072.7	1067.1	1058.4	1054.0	1051.5	1047.8	1044.7	1044.0	1042.2	1039.7
25°	1118.9	1118.2	1111.4	1103.9	1100.8	1097.7	1094.5	1090.2	1086.4	1082.1	1079.6
27.5°	1176.2	1173.8	1163.8	1160.0	1155.7	1153.8	1149.4	1144.4	1141.3	1135.7	1132.6
30°	1239.2	1239.2	1231.1	1229.9	1229.9	1225.5	1220.5	1211.8	1206.2	1200.6	1198.7
32.5°	1302.2	1302.9	1294.7	1297.2	1299.1	1302.2	1303.5	1300.4	1296.6	1296.0	1292.2
35°	1393.3	1390.8	1382.7	1384.6	1383.9	1383.3	1383.3	1390.2	1391.4	1392.7	1385.2
37.5°	1506.2	1506.2	1498.1	1498.1	1494.3	1490.6	1485.6	1490.0	1496.8	1498.7	1493.7
40°	1635.3	1639.6	1629.7	1629.0	1630.3	1618.4	1612.8	1619.7	1624.0	1631.5	1625.9
42.5°	1787.4	1784.3	1774.3	1773.1	1766.2	1762.5	1757.5	1763.1	1770.0	1775.0	1776.8
45°	1933.4	1930.9	1919.7	1919.7	1912.8	1909.7	1912.2	1921.5	1924.7	1931.5	1938.4
47.5°	2077.5	2074.3	2066.8	2070.0	2070.6	2076.2	2084.3	2093.0	2101.8	2111.1	2114.2
50°	2224.6	2225.3	2217.2	2224.6	2234.0	2249.6	2271.4	2285.8	2303.8	2315.7	2319.4
52.5°	2358.7	2361.2	2370.0	2387.4	2406.1	2436.7	2474.1	2509.0	2539.0	2558.9	2557.7
55°	2519.6	2523.4	2544.6	2574.5	2605.1	2651.2	2706.7	2768.5	2818.4	2847.1	2829.0
57.5°	2725.4	2733.6	2757.3	2797.8	2843.3	2903.2	2979.3	3072.2	3149.5	3188.2	3158.9
60°	3008.0	3013.0	3041.6	3086.6	3141.4	3215.7	3317.3	3442.0	3551.2	3602.3	3568.7
62.5°	3380.3	3389.7	3412.7	3458.3	3514.4	3598.6	3722.7	3878.6	4014.6	4085.7	4009.6
65°	3825.0	3854.9	3874.3	3920.4	3972.8	4062.0	4191.7	4358.8	4504.8	4551.6	4463.6
67.5°	4265.3	4291.5	4325.2	4378.2	4431.2	4531.6	4652.0	4814.1	4974.4	5016.8	4880.2
70°	4458.0	4473.0	4525.4	4597.7	4699.4	4817.9	4956.9	5139.1	5337.4	5372.3	5198.9
72.5°	4072.0	4086.9	4145.5	4268.4	4445.5	4633.9	4876.5	5144.0	5406.0	5445.3	5206.4
75°	3079.7	3055.4	3142.1	3304.8	3543.7	3806.3	4145.5	4529.1	4907.7	4956.9	4671.9
77.5°	1591.6	1588.5	1654.0	1856.0	2141.1	2439.8	2813.4	3246.8	3617.3	3767.0	3535.0
80°	448.4	453.4	484.6	585.0	751.5	967.3	1259.2	1665.2	1968.3	2123.0	1993.3
82.5°	175.9	189.6	201.4	220.2	242.0	273.8	365.5	543.8	729.7	871.9	714.1
85°	63.0	67.4	95.4	112.9	114.8	121.0	137.8	160.9	194.0	231.4	190.2
87.5°	23.7	26.2	30.6	50.5	49.9	45.5	55.5	58.0	43.7	39.9	49.3
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	962.9	962.9	962.9	962.9	962.9	962.9	962.9	962.9
2.5°	960.5	961.1	961.1	961.7	962.3	962.3	963.6	963.6
5°	961.1	961.1	959.8	960.5	959.8	959.8	960.5	960.5
7.5°	959.8	959.2	958.0	957.3	956.1	956.1	956.1	956.1
10°	958.0	957.3	956.1	955.5	954.8	954.8	954.8	954.8
12.5°	962.9	961.1	959.8	959.2	959.2	959.2	959.2	959.2
15°	976.0	971.7	968.6	968.6	969.2	970.4	970.4	971.7
17.5°	992.3	987.3	984.2	981.7	982.9	984.8	986.0	987.3
20°	1011.6	1009.1	1004.7	1002.2	1002.2	1004.7	1006.0	1006.6
22.5°	1038.4	1036.5	1034.7	1031.6	1031.6	1032.8	1035.3	1035.3
25°	1078.3	1077.1	1075.8	1073.3	1072.7	1072.7	1074.0	1075.2
27.5°	1128.2	1128.8	1127.6	1127.0	1125.1	1124.5	1126.4	1125.7
30°	1195.0	1198.1	1201.2	1198.7	1195.6	1193.7	1191.8	1189.3
32.5°	1285.4	1281.6	1279.2	1274.8	1269.2	1264.2	1260.4	1256.1
35°	1370.8	1364.6	1362.1	1365.8	1365.2	1362.1	1357.7	1354.0
37.5°	1475.6	1474.4	1475.6	1482.5	1481.2	1484.3	1475.6	1475.0
40°	1607.8	1609.1	1617.8	1625.9	1630.3	1634.6	1629.7	1624.7
42.5°	1761.2	1760.6	1763.7	1775.0	1782.5	1787.4	1776.8	1775.6
45°	1923.4	1919.0	1921.5	1930.9	1938.4	1944.0	1932.1	1932.1
47.5°	2101.8	2094.3	2086.2	2096.8	2101.2	2104.9	2095.5	2092.4
50°	2300.7	2285.1	2267.7	2272.0	2272.0	2270.8	2258.9	2258.3
52.5°	2529.0	2500.3	2468.5	2456.6	2449.8	2442.3	2421.7	2411.7
55°	2791.6	2748.5	2698.6	2668.1	2651.9	2631.3	2597.0	2587.6
57.5°	3098.4	3031.0	2945.0	2907.6	2871.4	2837.7	2799.7	2789.1
60°	3462.0	3362.8	3248.7	3179.5	3140.2	3107.8	3068.5	3066.6
62.5°	3867.4	3710.8	3581.7	3519.4	3490.7	3462.0	3424.6	3429.6
65°	4279.6	4116.2	3995.2	3944.7	3917.9	3894.2	3856.8	3862.4
67.5°	4686.3	4536.0	4403.1	4351.4	4321.4	4291.5	4257.8	4263.4
70°	4978.2	4791.7	4642.0	4527.2	4455.5	4374.4	4322.0	4309.0
72.5°	4894.6	4607.1	4369.4	4141.8	4008.3	3899.8	3826.2	3794.4
75°	4236.0	3843.1	3537.5	3258.1	3100.9	2973.0	2880.1	2822.1
77.5°	3145.8	2704.2	2343.1	2021.3	1766.9	1596.0	1475.6	1397.6
80°	1722.0	1309.7	957.3	672.9	494.6	411.0	363.0	339.9
82.5°	536.4	346.1	255.1	220.2	204.6	195.8	181.5	158.4
85°	170.9	149.7	139.1	132.8	126.6	110.4	76.1	69.2
87.5°	66.1	68.0	67.4	63.6	64.9	46.8	37.4	33.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)