

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: P193413

Luminaire Tested: **GLEON-AF-05-LED-E1-5WQ-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193413
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-05-LED-E1-5WQ-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 16847 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 162
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

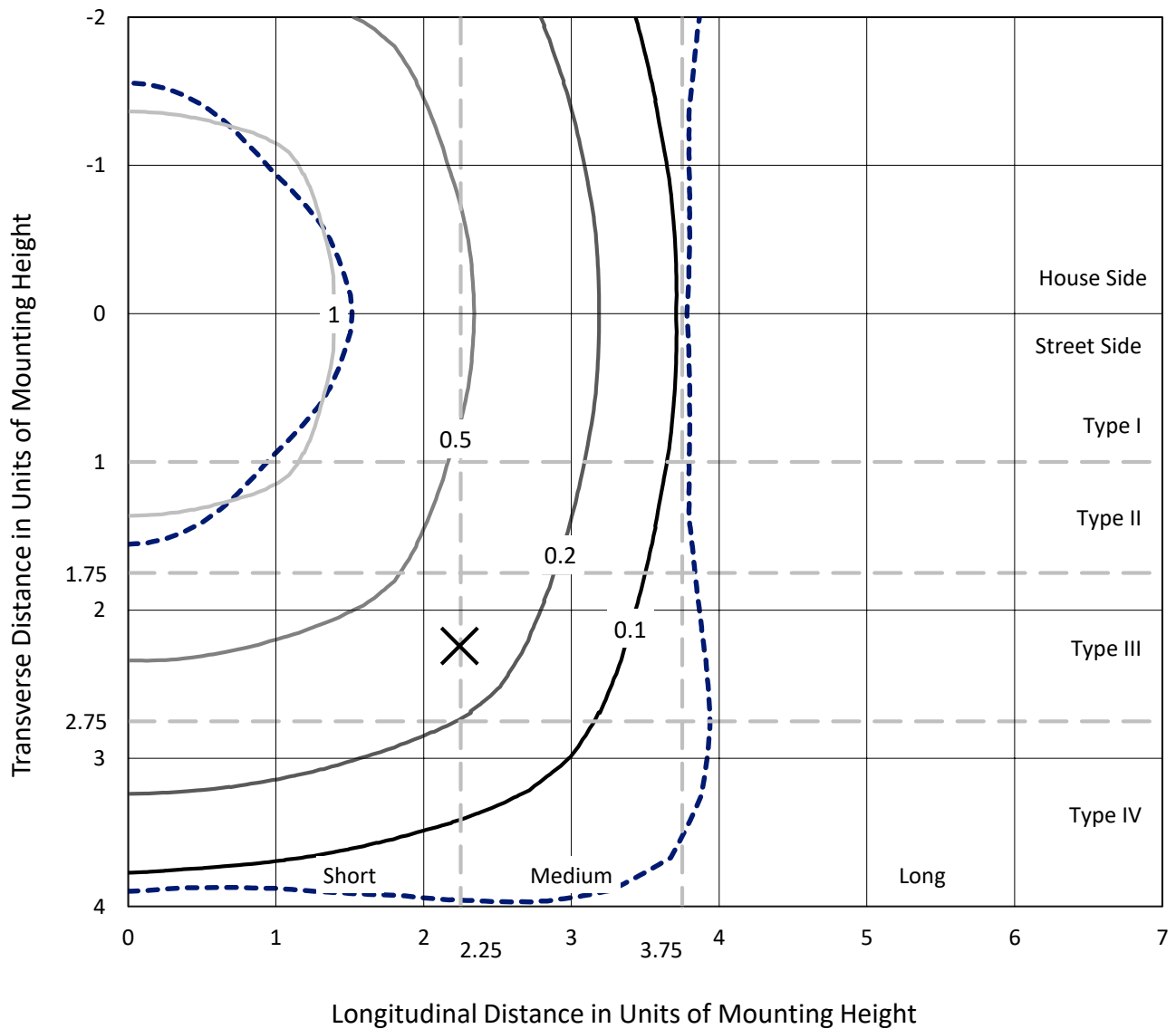


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

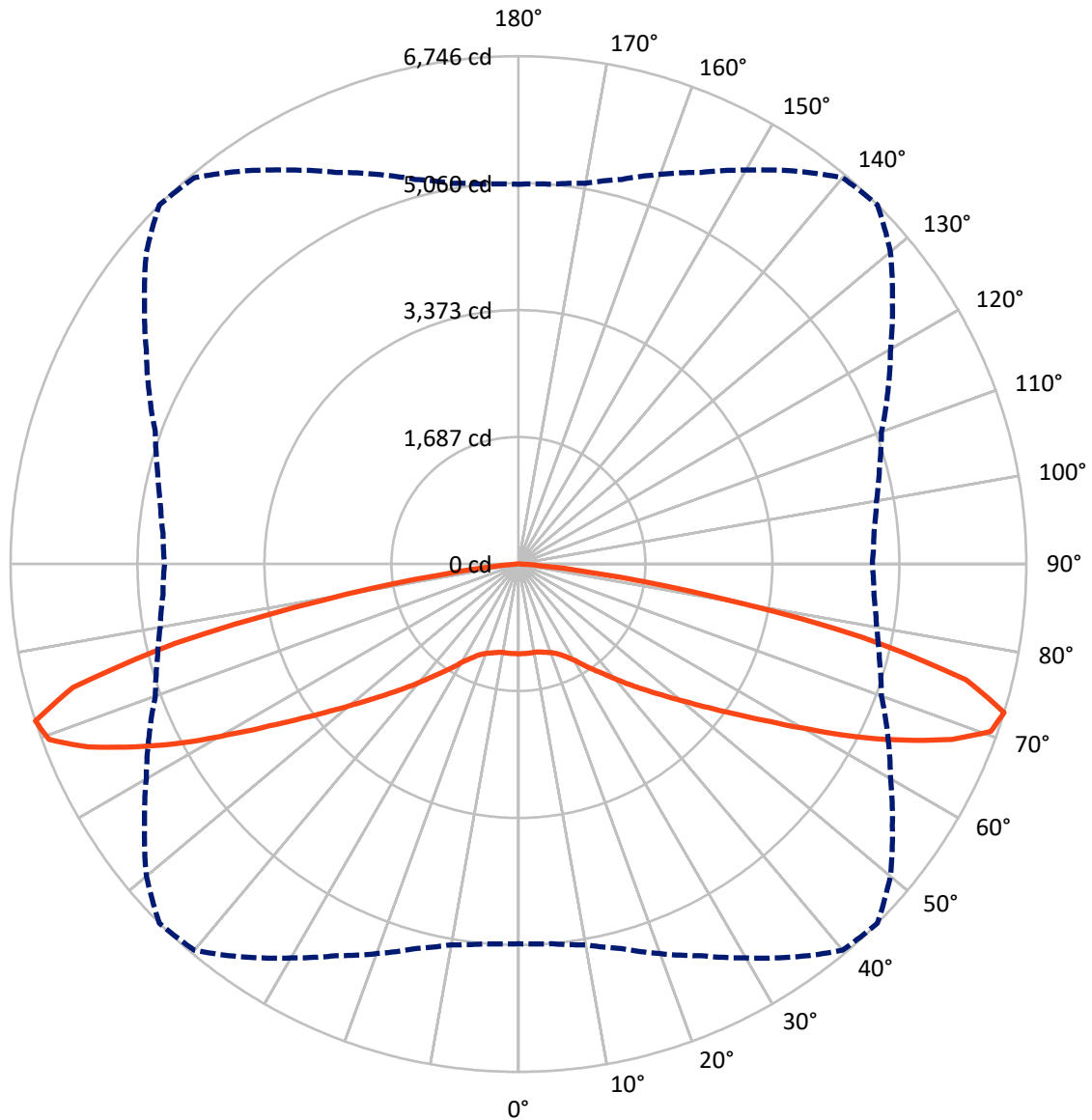


Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type V - Short - Semi-Cutoff

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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	8423.5	0.0	8423.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8423.5	0.0	8423.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	16847.0	0.0	16847.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.9	0.7
10°-20°	346.0	2.1
20°-30°	632.3	3.8
30°-40°	1090.1	6.5
40°-50°	1863.6	11.1
50°-60°	3020.6	17.9
60°-70°	5011.1	29.7
70°-80°	4413.6	26.2
80°-90°	355.9	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°	16847.0	100.0
0°-180°	16847.0	100.0



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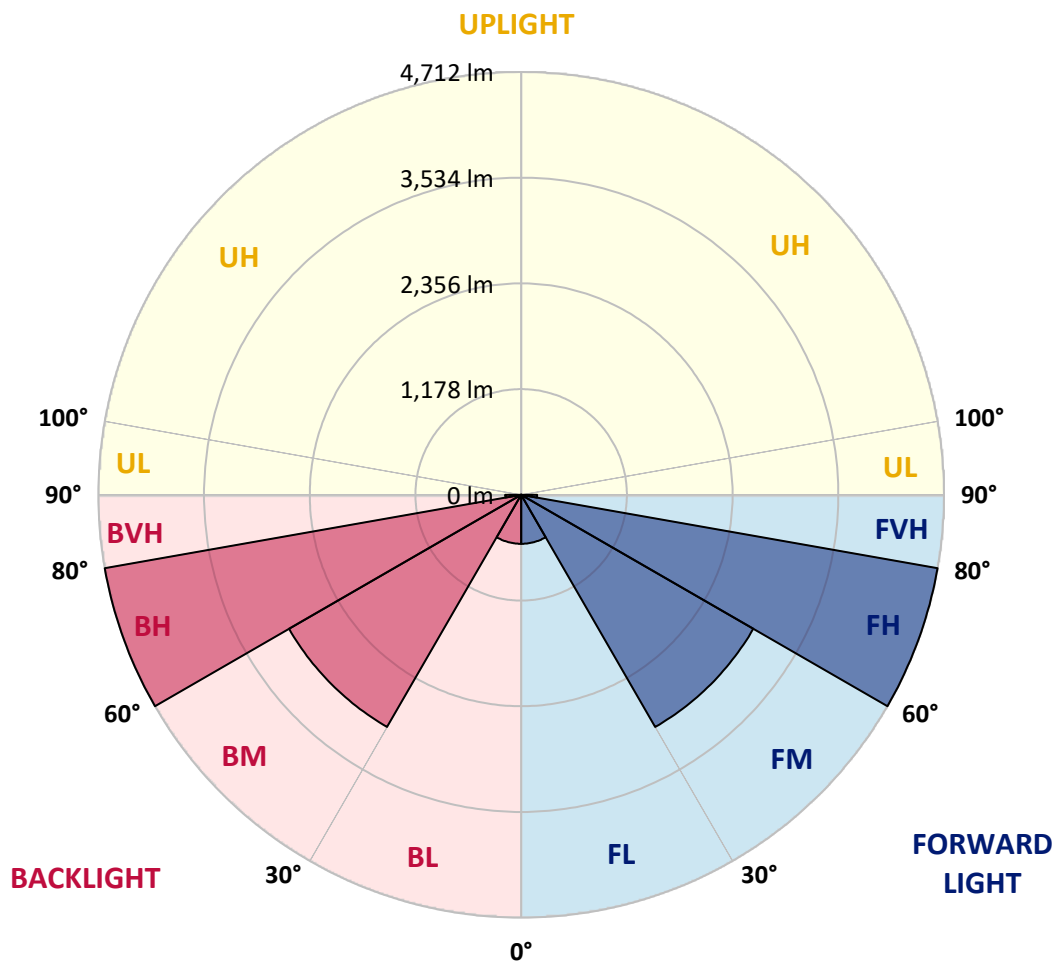
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	546.1	3.2			
FM (30°-60°)	2987.2	17.7			
FH (60°-80°)	4712.3	28.0			G2/5000
FVH (80°-90°)	177.9	1.1			G2/225
BL (0°-30°)	546.1	3.2	B2/1000		
BM (30°-60°)	2987.2	17.7	B3/5000		
BH (60°-80°)	4712.3	28.0	B4/5000		G2/5000
BVH (80°-90°)	177.9	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°	1193.0	1193.0	1193.0	1193.0	1193.0	1193.0	1193.0	1193.0	1193.0	1193.0	1193.0
2.5°	1193.0	1193.8	1194.6	1193.8	1193.8	1193.0	1192.3	1193.0	1192.3	1190.7	1191.5
5°	1196.9	1198.4	1198.4	1196.9	1197.7	1196.9	1195.3	1196.1	1194.6	1192.3	1192.3
7.5°	1201.5	1202.3	1202.3	1200.8	1201.5	1200.0	1198.4	1197.7	1196.1	1193.0	1190.7
10°	1208.5	1209.3	1208.5	1206.9	1206.9	1204.6	1200.8	1199.2	1196.1	1191.5	1189.2
12.5°	1216.2	1217.0	1216.2	1214.7	1213.9	1210.0	1206.9	1204.6	1202.3	1198.4	1194.6
15°	1227.0	1228.6	1227.0	1223.9	1221.6	1218.5	1217.0	1217.8	1218.5	1215.4	1211.6
17.5°	1247.1	1247.9	1245.6	1238.6	1235.5	1232.4	1232.4	1234.0	1236.3	1234.8	1230.9
20°	1284.2	1281.9	1276.5	1268.0	1264.1	1258.7	1257.9	1258.7	1258.7	1257.9	1254.8
22.5°	1330.6	1329.0	1322.1	1311.3	1305.8	1302.8	1298.1	1294.3	1293.5	1291.2	1288.1
25°	1386.2	1385.4	1376.9	1367.7	1363.8	1359.9	1356.1	1350.7	1346.0	1340.6	1337.5
27.5°	1457.3	1454.2	1441.8	1437.2	1431.8	1429.5	1424.1	1417.9	1414.0	1407.1	1403.2
30°	1535.3	1535.3	1525.3	1523.7	1523.7	1518.3	1512.1	1501.3	1494.4	1487.4	1485.1
32.5°	1613.4	1614.1	1604.1	1607.2	1609.5	1613.4	1614.9	1611.1	1606.4	1605.6	1601.0
35°	1726.2	1723.1	1713.0	1715.4	1714.6	1713.8	1713.8	1722.3	1723.9	1725.4	1716.1
37.5°	1866.0	1866.0	1856.0	1856.0	1851.4	1846.7	1840.5	1846.0	1854.4	1856.8	1850.6
40°	2026.0	2031.4	2019.0	2018.3	2019.8	2005.1	1998.2	2006.7	2012.1	2021.4	2014.4
42.5°	2214.5	2210.7	2198.3	2196.8	2188.3	2183.6	2177.4	2184.4	2192.9	2199.1	2201.4
45°	2395.3	2392.2	2378.3	2378.3	2369.8	2366.0	2369.1	2380.6	2384.5	2393.0	2401.5
47.5°	2573.8	2570.0	2560.7	2564.5	2565.3	2572.3	2582.3	2593.1	2604.0	2615.5	2619.4
50°	2756.2	2756.9	2746.9	2756.2	2767.8	2787.1	2814.1	2831.9	2854.3	2869.0	2873.6
52.5°	2922.3	2925.4	2936.2	2957.8	2981.0	3018.9	3065.3	3108.5	3145.6	3170.3	3168.8
55°	3121.7	3126.3	3152.6	3189.7	3227.5	3284.7	3353.5	3430.0	3491.8	3527.3	3504.9
57.5°	3376.6	3386.7	3416.1	3466.3	3522.7	3596.9	3691.1	3806.3	3902.1	3950.0	3913.7
60°	3726.7	3732.9	3768.4	3824.0	3892.0	3984.0	4109.9	4264.5	4399.7	4463.0	4421.3
62.5°	4188.0	4199.6	4228.1	4284.6	4354.1	4458.4	4612.2	4805.3	4973.8	5061.9	4967.6
65°	4738.9	4776.0	4799.9	4857.1	4922.0	5032.5	5193.2	5400.3	5581.1	5639.1	5530.1
67.5°	5284.4	5316.9	5358.6	5424.3	5489.9	5614.3	5763.5	5964.4	6163.0	6215.5	6046.3
70°	5523.2	5541.7	5606.6	5696.3	5822.2	5969.0	6141.3	6366.9	6612.7	6655.9	6441.1
72.5°	5044.9	5063.4	5136.1	5288.3	5507.7	5741.1	6041.6	6373.1	6697.7	6746.3	6450.4
75°	3815.5	3785.4	3892.8	4094.5	4390.4	4715.7	5136.1	5611.3	6080.3	6141.3	5788.2
77.5°	1971.9	1968.0	2049.2	2299.5	2652.6	3022.8	3485.6	4022.6	4481.6	4667.0	4379.6
80°	555.6	561.7	600.4	724.8	931.1	1198.4	1560.1	2063.1	2438.6	2630.2	2469.5
82.5°	217.9	234.9	249.6	272.8	299.8	339.2	452.8	673.8	904.0	1080.2	884.7
85°	78.0	83.5	118.2	139.9	142.2	149.9	170.8	199.4	240.3	286.7	235.7
87.5°	29.4	32.5	37.9	62.6	61.8	56.4	68.8	71.9	54.1	49.5	61.0
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1193.0	1193.0	1193.0	1193.0	1193.0	1193.0	1193.0	1193.0
2.5°	1189.9	1190.7	1190.7	1191.5	1192.3	1192.3	1193.8	1193.8
5°	1190.7	1190.7	1189.2	1189.9	1189.2	1189.2	1189.9	1189.9
7.5°	1189.2	1188.4	1186.8	1186.1	1184.5	1184.5	1184.5	1184.5
10°	1186.8	1186.1	1184.5	1183.8	1183.0	1183.0	1183.0	1183.0
12.5°	1193.0	1190.7	1189.2	1188.4	1188.4	1188.4	1188.4	1188.4
15°	1209.3	1203.8	1200.0	1200.0	1200.8	1202.3	1202.3	1203.8
17.5°	1229.3	1223.2	1219.3	1216.2	1217.8	1220.1	1221.6	1223.2
20°	1253.3	1250.2	1244.8	1241.7	1241.7	1244.8	1246.3	1247.1
22.5°	1286.5	1284.2	1281.9	1278.0	1278.0	1279.6	1282.7	1282.7
25°	1336.0	1334.4	1332.9	1329.8	1329.0	1329.0	1330.6	1332.1
27.5°	1397.8	1398.6	1397.0	1396.2	1393.9	1393.2	1395.5	1394.7
30°	1480.5	1484.3	1488.2	1485.1	1481.2	1478.9	1476.6	1473.5
32.5°	1592.5	1587.9	1584.8	1579.4	1572.4	1566.2	1561.6	1556.2
35°	1698.4	1690.6	1687.5	1692.2	1691.4	1687.5	1682.1	1677.5
37.5°	1828.2	1826.6	1828.2	1836.7	1835.1	1839.0	1828.2	1827.4
40°	1992.0	1993.5	2004.4	2014.4	2019.8	2025.2	2019.0	2012.9
42.5°	2182.1	2181.3	2185.2	2199.1	2208.3	2214.5	2201.4	2199.8
45°	2383.0	2377.6	2380.6	2392.2	2401.5	2408.5	2393.8	2393.8
47.5°	2604.0	2594.7	2584.6	2597.8	2603.2	2607.8	2596.2	2592.4
50°	2850.4	2831.1	2809.5	2814.9	2814.9	2813.4	2798.7	2797.9
52.5°	3133.2	3097.7	3058.3	3043.6	3035.1	3025.8	3000.3	2988.0
55°	3458.5	3405.2	3343.4	3305.6	3285.5	3260.0	3217.5	3205.9
57.5°	3838.7	3755.3	3648.6	3602.3	3557.5	3515.7	3468.6	3455.5
60°	4289.2	4166.3	4024.9	3939.2	3890.5	3850.3	3801.6	3799.3
62.5°	4791.4	4597.5	4437.5	4360.3	4324.7	4289.2	4242.8	4249.0
65°	5302.2	5099.7	4949.8	4887.2	4854.0	4824.7	4778.3	4785.3
67.5°	5806.0	5619.8	5455.2	5391.0	5354.0	5316.9	5275.1	5282.1
70°	6167.6	5936.6	5751.1	5608.9	5520.1	5419.6	5354.7	5338.5
72.5°	6064.1	5707.8	5413.4	5131.4	4966.1	4831.6	4740.4	4701.0
75°	5248.1	4761.3	4382.7	4036.5	3841.8	3683.4	3568.3	3496.4
77.5°	3897.4	3350.4	2903.0	2504.3	2189.0	1977.3	1828.2	1731.6
80°	2133.4	1622.6	1186.1	833.7	612.7	509.2	449.7	421.1
82.5°	664.5	428.8	316.0	272.8	253.4	242.6	224.9	196.3
85°	211.7	185.4	172.3	164.6	156.9	136.8	94.3	85.8
87.5°	81.9	84.2	83.5	78.8	80.4	58.0	46.4	41.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)