

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: P193371

Luminaire Tested: **GLEON-AF-03-LED-E1-5NQ-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193371
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-03-LED-E1-5NQ-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10078 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

Input Watts (W): 96
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

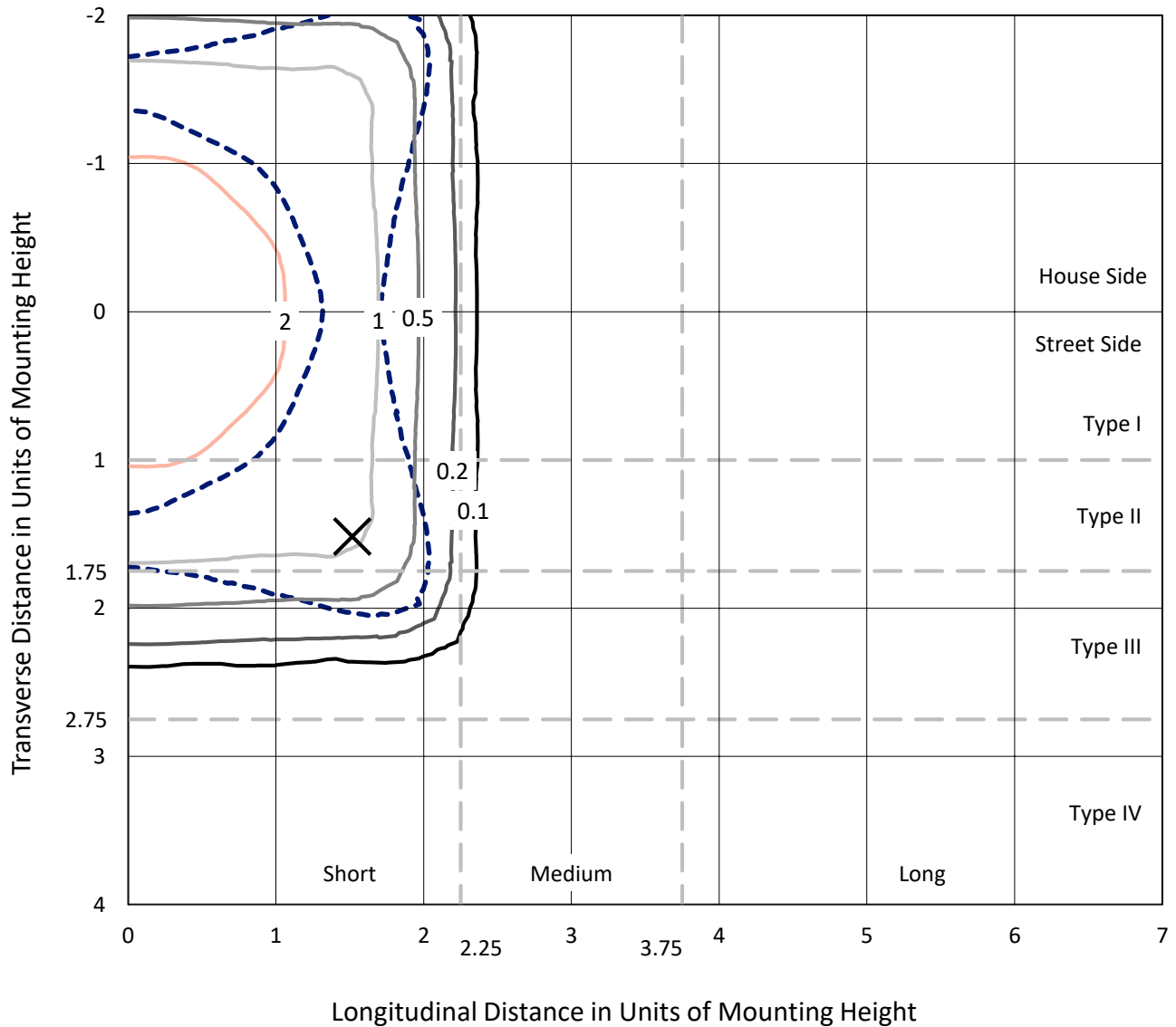


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

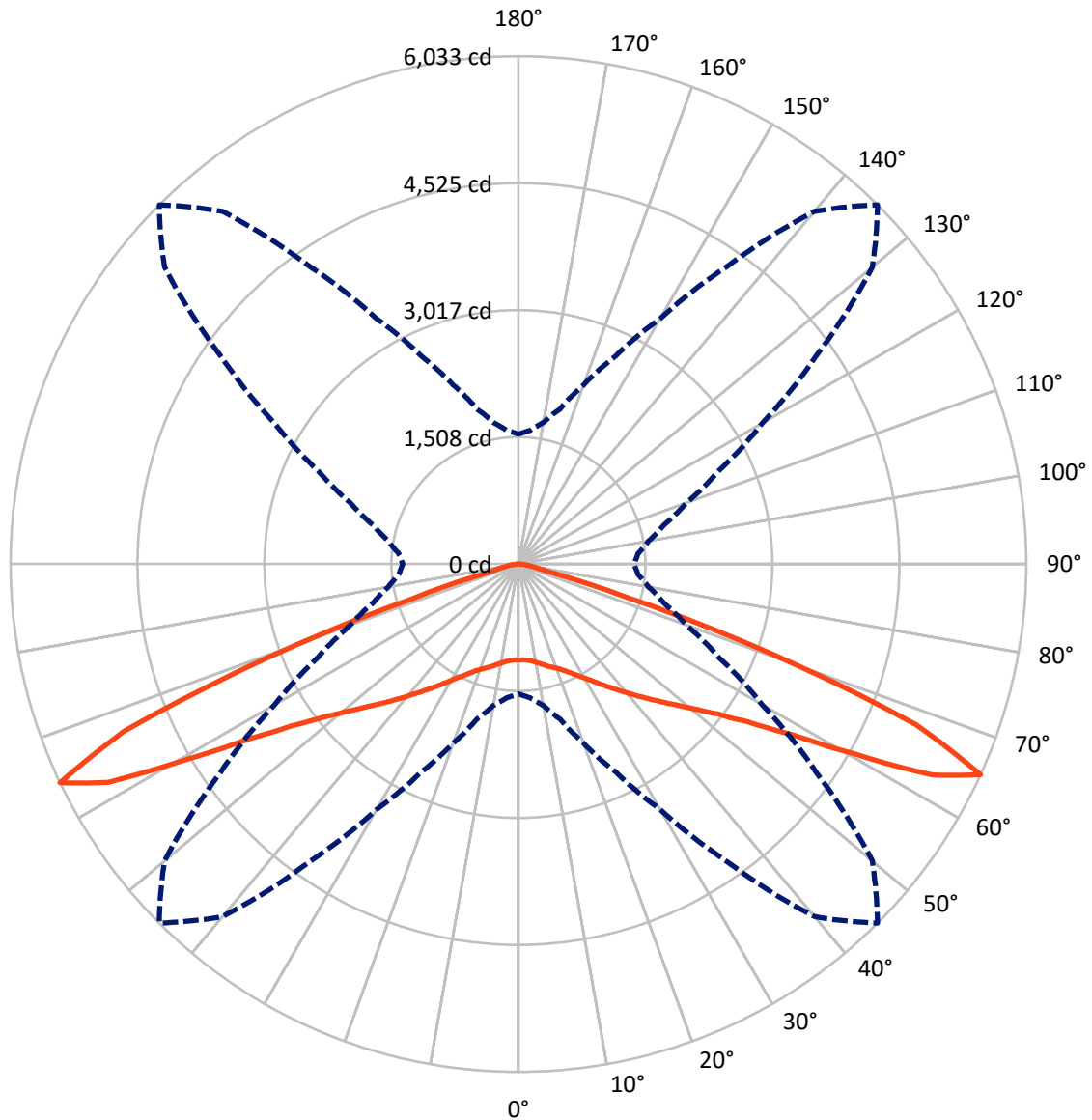


Based on 20 foot mounting height. Maximum calculated value = 2.9 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5039.0	0.0	5039.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5039.0	0.0	5039.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	10078.0	0.0	10078.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.1	1.1
10°-20°	356.5	3.5
20°-30°	666.5	6.6
30°-40°	1127.3	11.2
40°-50°	1843.2	18.3
50°-60°	2931.0	29.1
60°-70°	2649.4	26.3
70°-80°	335.3	3.3
80°-90°	57.7	0.6
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°	10078.0	100.0
0°-180°	10078.0	100.0

Coefficient of Utilization



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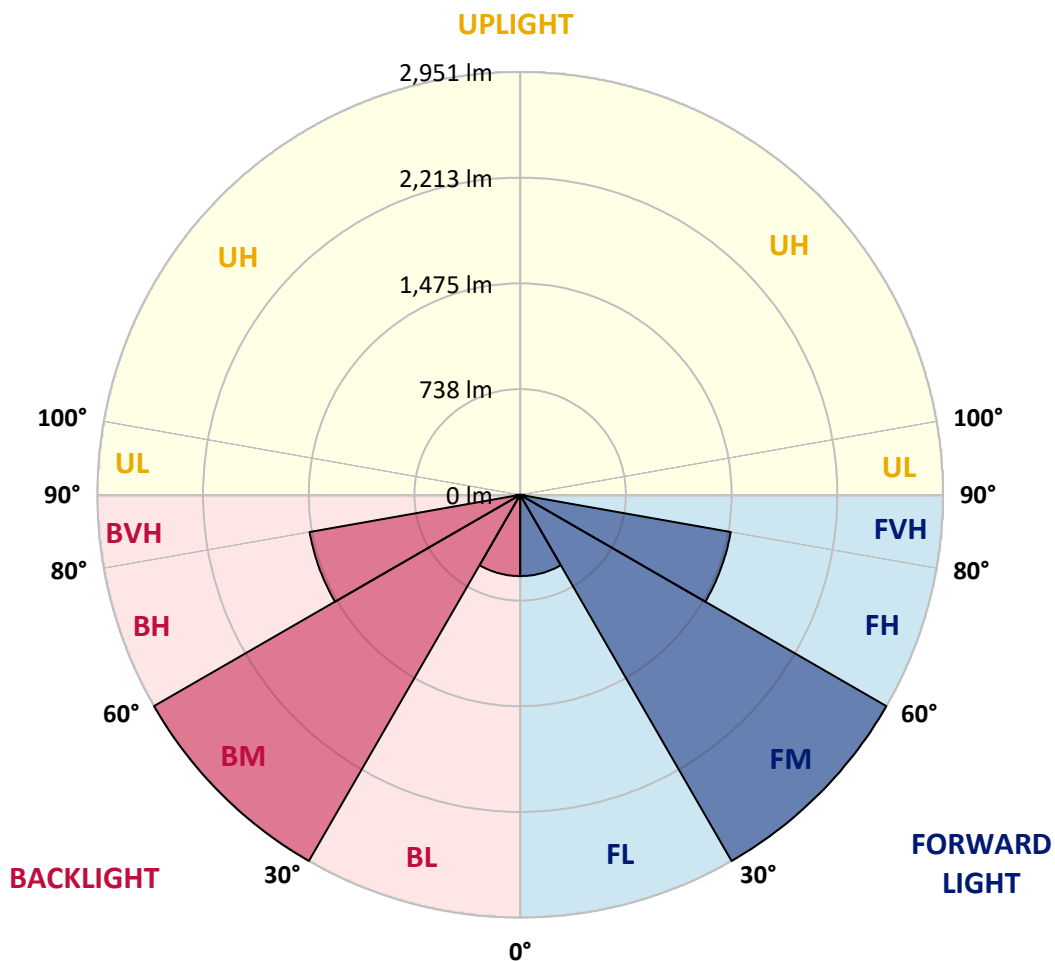
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	567.1	5.6			
FM	(30°-60°)	2950.7	29.3			
FH	(60°-80°)	1492.4	14.8			G1/1800
FVH	(80°-90°)	28.8	0.3			G1/100
BL	(0°-30°)	567.1	5.6	B2/1000		
BM	(30°-60°)	2950.7	29.3	B3/5000		
BH	(60°-80°)	1492.4	14.8	B3/2500		G1/1800
BVH	(80°-90°)	28.8	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1140.3	1140.3	1140.3	1140.3	1140.3	1140.3	1140.3	1140.3	1140.3	1140.3	1140.3
2.5°	1141.3	1142.2	1143.2	1142.2	1143.2	1141.7	1140.8	1142.2	1140.8	1139.4	1140.3
5°	1151.2	1151.7	1151.7	1150.2	1151.7	1150.7	1149.3	1151.2	1149.8	1148.4	1149.3
7.5°	1167.7	1169.6	1168.2	1166.8	1167.7	1166.8	1165.8	1166.3	1165.8	1164.4	1164.9
10°	1189.9	1191.3	1190.4	1189.9	1190.8	1190.4	1189.4	1188.9	1189.4	1188.0	1188.0
12.5°	1216.8	1216.3	1215.8	1216.3	1217.7	1217.7	1217.3	1217.7	1218.7	1219.2	1218.2
15°	1243.2	1244.2	1244.2	1244.2	1247.0	1249.4	1250.8	1251.7	1253.6	1254.1	1252.2
17.5°	1276.3	1276.3	1275.8	1276.3	1279.1	1282.9	1284.3	1286.2	1288.1	1289.5	1287.1
20°	1313.1	1314.0	1314.0	1315.0	1318.7	1323.0	1323.0	1323.9	1323.0	1323.9	1322.5
22.5°	1357.9	1360.8	1360.8	1361.2	1365.0	1370.2	1368.8	1370.2	1367.8	1369.7	1367.8
25°	1416.4	1420.7	1419.7	1419.7	1422.6	1425.9	1426.4	1429.2	1428.7	1431.1	1429.7
27.5°	1482.5	1489.1	1491.0	1490.5	1492.4	1495.7	1496.7	1500.0	1498.1	1500.0	1499.0
30°	1561.8	1564.7	1568.4	1569.8	1572.2	1575.5	1575.5	1576.0	1573.6	1576.5	1577.9
32.5°	1643.9	1649.1	1652.9	1661.4	1665.7	1668.0	1667.5	1668.5	1666.1	1669.9	1672.7
35°	1752.5	1756.3	1762.4	1769.0	1774.7	1774.2	1772.8	1773.3	1773.3	1776.6	1779.4
37.5°	1883.2	1884.2	1892.2	1901.7	1904.5	1901.7	1893.2	1891.3	1887.0	1891.3	1896.0
40°	2021.5	2024.8	2040.9	2047.0	2048.4	2043.3	2031.0	2023.9	2014.5	2019.7	2026.3
42.5°	2166.4	2173.0	2187.7	2198.5	2203.3	2200.0	2183.0	2172.1	2159.8	2162.7	2169.3
45°	2326.9	2334.9	2355.7	2366.1	2375.1	2369.9	2353.3	2336.8	2317.5	2318.9	2329.3
47.5°	2506.3	2514.3	2541.2	2558.7	2563.4	2562.4	2544.0	2521.4	2494.9	2494.0	2503.0
50°	2707.3	2715.4	2748.9	2775.8	2789.5	2788.1	2766.3	2734.2	2702.2	2702.6	2714.0
52.5°	2903.7	2913.6	2948.5	2994.8	3021.7	3041.0	3027.8	2997.6	2958.4	2959.4	2969.8
55°	3087.8	3104.3	3144.4	3207.2	3257.2	3311.5	3327.1	3326.1	3302.5	3309.1	3319.5
57.5°	3177.0	3201.5	3263.3	3362.5	3464.4	3574.9	3668.3	3738.2	3767.9	3812.7	3802.4
60°	3008.0	3047.2	3138.3	3284.1	3485.7	3716.0	3962.8	4204.0	4409.8	4565.1	4475.9
62.5°	2462.9	2513.8	2624.3	2811.2	3116.1	3484.7	3957.2	4527.3	5148.5	5523.2	5255.6
65°	1541.1	1593.9	1706.2	1906.4	2263.2	2721.5	3362.5	4307.4	5468.0	6033.0	5488.3
67.5°	600.8	629.6	690.5	818.4	1086.5	1494.3	2137.6	3210.0	4598.1	5093.3	4512.7
70°	301.1	304.0	315.3	338.9	396.5	514.9	783.5	1488.2	2637.0	3185.0	2542.1
72.5°	217.6	218.1	223.7	234.1	252.5	278.9	329.9	455.5	857.6	1310.7	803.8
75°	166.6	168.5	171.8	177.5	187.4	200.6	219.0	262.4	325.2	377.1	317.2
77.5°	128.4	132.2	134.5	139.7	145.8	154.8	160.0	176.5	205.3	216.2	212.9
80°	97.7	101.0	106.2	110.4	114.7	118.9	117.1	124.6	139.7	148.7	144.0
82.5°	62.3	66.1	81.2	85.0	86.8	89.7	86.4	86.8	93.5	99.1	93.5
85°	40.1	42.5	51.4	56.2	56.6	58.5	57.1	53.8	53.8	49.1	55.2
87.5°	18.4	18.9	23.1	27.4	28.3	25.5	25.0	24.1	19.4	18.4	19.8
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°	1140.3	1140.3	1140.3	1140.3	1140.3	1140.3	1140.3	1140.3
2.5°	1139.9	1140.8	1141.3	1142.7	1143.2	1143.2	1143.6	1144.6
5°	1148.8	1150.2	1150.7	1152.6	1153.1	1152.6	1153.5	1154.0
7.5°	1164.9	1167.2	1168.2	1170.1	1168.7	1170.5	1171.0	1171.0
10°	1188.5	1190.8	1191.3	1193.2	1192.3	1193.2	1193.2	1192.3
12.5°	1219.6	1220.1	1218.7	1220.1	1218.2	1219.2	1217.7	1216.8
15°	1254.1	1252.7	1249.4	1249.4	1246.5	1247.0	1246.5	1246.1
17.5°	1287.6	1284.8	1282.4	1281.5	1279.1	1278.6	1277.2	1277.2
20°	1324.4	1323.0	1321.6	1319.7	1317.3	1315.0	1314.5	1315.4
22.5°	1368.8	1368.3	1368.3	1367.4	1364.1	1361.7	1360.3	1360.3
25°	1428.2	1424.0	1424.0	1423.5	1422.1	1420.7	1417.9	1419.3
27.5°	1495.3	1492.9	1494.8	1494.3	1492.9	1492.9	1491.0	1491.0
30°	1577.9	1576.9	1579.8	1577.4	1572.7	1572.2	1570.3	1568.0
32.5°	1673.2	1672.3	1676.5	1673.7	1666.1	1661.9	1658.1	1656.2
35°	1779.4	1779.9	1785.1	1783.2	1774.7	1771.9	1765.2	1764.3
37.5°	1895.5	1903.1	1912.0	1913.9	1906.8	1905.0	1897.9	1894.1
40°	2031.9	2041.8	2055.5	2058.8	2051.3	2049.9	2039.9	2034.8
42.5°	2177.3	2194.3	2211.3	2214.1	2206.6	2199.0	2189.6	2185.8
45°	2339.7	2360.0	2382.1	2387.8	2376.5	2367.5	2355.2	2355.2
47.5°	2521.8	2547.3	2572.4	2587.9	2577.5	2568.1	2553.5	2544.0
50°	2737.1	2772.0	2804.6	2820.6	2804.1	2786.2	2760.7	2752.2
52.5°	3007.1	3044.8	3073.1	3064.6	3039.2	3014.1	2986.3	2975.0
55°	3351.6	3364.4	3364.4	3332.3	3281.3	3239.3	3195.4	3180.7
57.5°	3782.5	3733.5	3657.9	3562.1	3441.8	3337.0	3266.2	3232.7
60°	4289.0	4053.0	3786.3	3524.4	3309.1	3131.7	3026.4	2978.3
62.5°	4626.5	4009.1	3474.8	3054.3	2744.6	2530.8	2385.4	2328.8
65°	4323.9	3343.6	2628.0	2124.9	1787.4	1569.8	1425.9	1373.0
67.5°	3167.1	2095.2	1399.5	1003.0	734.9	586.2	527.2	502.7
70°	1421.6	737.7	452.2	353.0	304.4	279.4	268.6	264.8
72.5°	428.6	310.1	261.5	236.0	216.6	204.4	195.4	194.5
75°	258.7	215.2	191.2	176.1	163.8	153.9	149.1	147.7
77.5°	180.8	158.1	146.8	135.9	126.5	118.9	114.7	111.4
80°	127.0	116.1	110.9	104.8	98.6	91.6	85.4	82.6
82.5°	85.0	82.6	82.6	78.8	73.6	67.0	54.8	51.9
85°	54.8	54.3	55.2	53.8	50.0	43.0	35.4	33.5
87.5°	25.5	26.0	28.8	28.3	27.4	22.7	17.9	17.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)