

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: P191640

Luminaire Tested: **GLEON-AF-02-LED-E1-5NQ-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191640
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-02-LED-E1-5NQ-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10150 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

Input Watts (W): 85
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

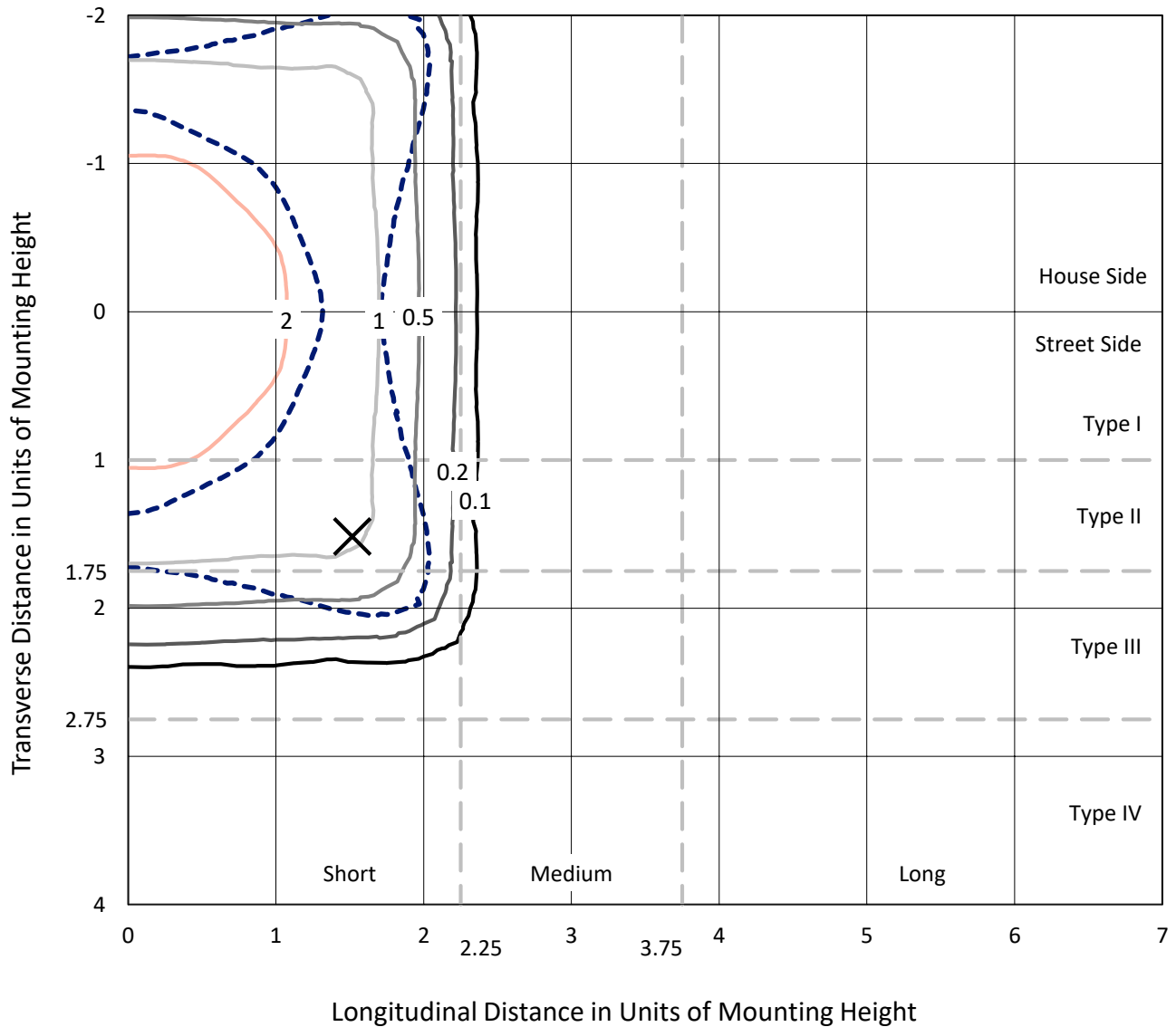


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

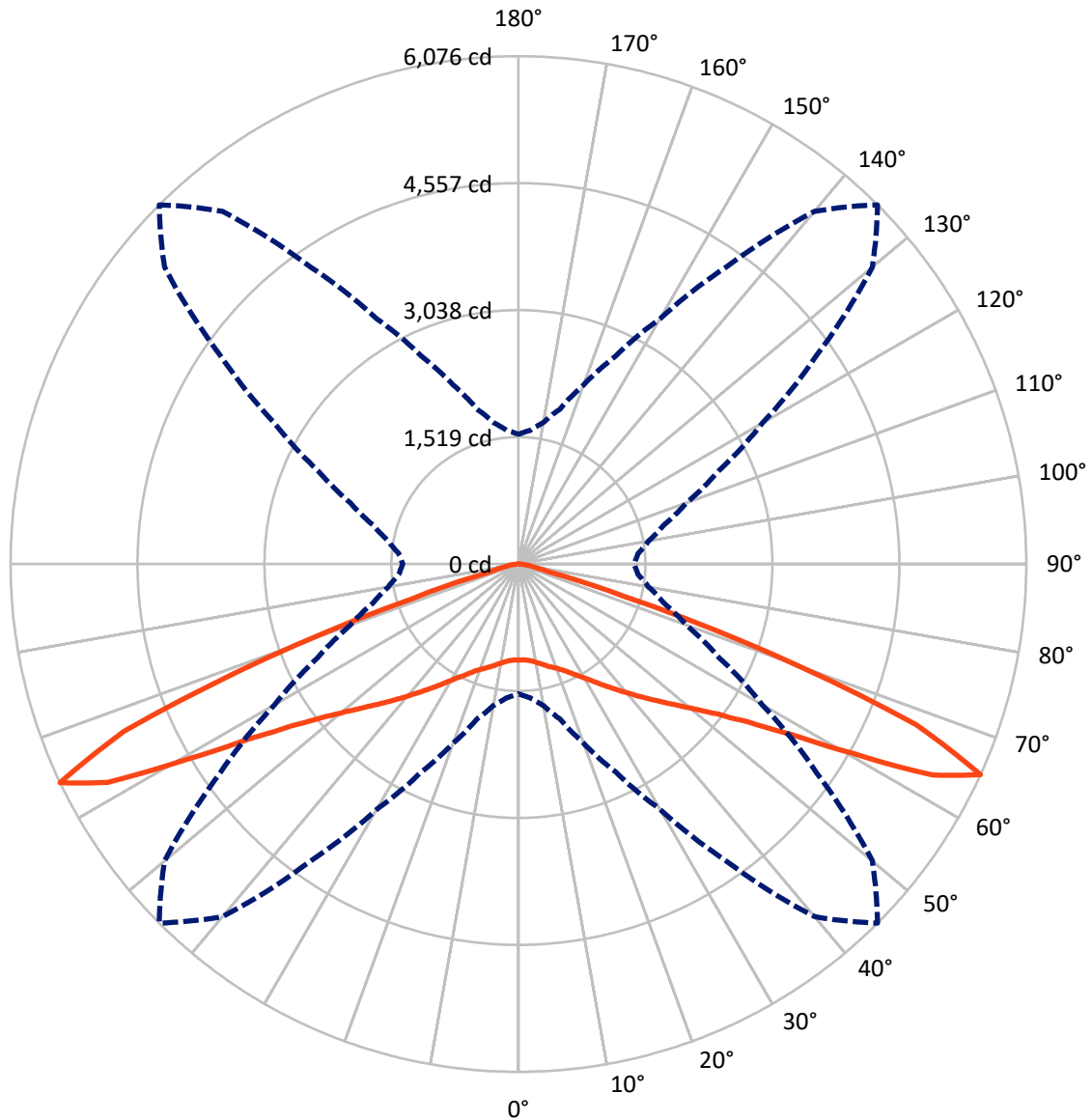


Based on 20 foot mounting height. Maximum calculated value = 2.9 fc
 Type V - Short - Full Cutoff

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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	5075.0	0.0	5075.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5075.0	0.0	5075.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	10150.0	0.0	10150.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.9	1.1
10°-20°	359.0	3.5
20°-30°	671.3	6.6
30°-40°	1135.3	11.2
40°-50°	1856.4	18.3
50°-60°	2951.9	29.1
60°-70°	2668.3	26.3
70°-80°	337.7	3.3
80°-90°	58.1	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°	10150.0	100.0
0°-180°	10150.0	100.0

Coefficient of Utilization



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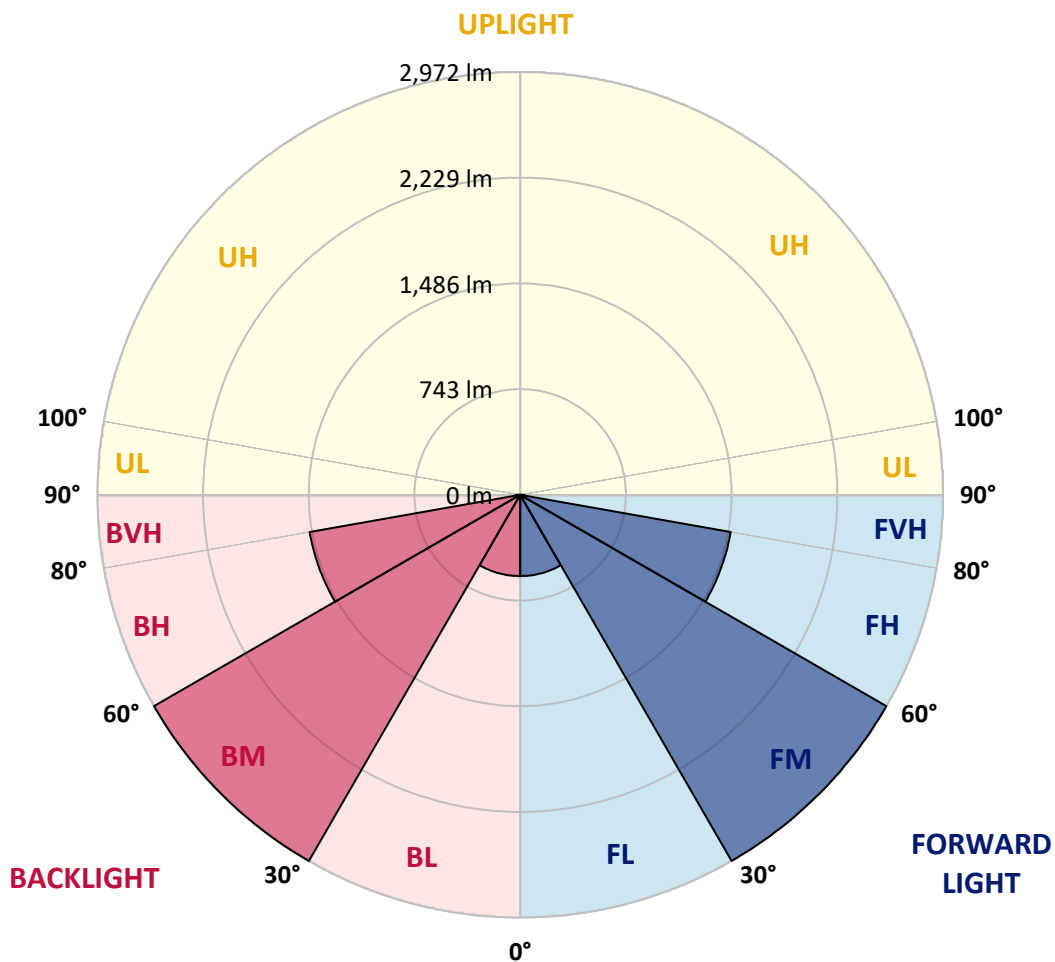
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	571.1	5.6			
FM	(30°-60°)	2971.8	29.3			
FH	(60°-80°)	1503.0	14.8			G1/1800
FVH	(80°-90°)	29.0	0.3			G1/100
BL	(0°-30°)	571.1	5.6	B2/1000		
BM	(30°-60°)	2971.8	29.3	B3/5000		
BH	(60°-80°)	1503.0	14.8	B3/2500		G1/1800
BVH	(80°-90°)	29.0	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°	1148.5	1148.5	1148.5	1148.5	1148.5	1148.5	1148.5	1148.5	1148.5	1148.5	1148.5
2.5°	1149.4	1150.4	1151.3	1150.4	1151.3	1149.9	1149.0	1150.4	1149.0	1147.5	1148.5
5°	1159.4	1159.9	1159.9	1158.5	1159.9	1158.9	1157.5	1159.4	1158.0	1156.6	1157.5
7.5°	1176.0	1178.0	1176.5	1175.1	1176.0	1175.1	1174.1	1174.6	1174.1	1172.7	1173.2
10°	1198.4	1199.8	1198.9	1198.4	1199.3	1198.9	1197.9	1197.4	1197.9	1196.5	1196.5
12.5°	1225.5	1225.0	1224.5	1225.0	1226.4	1226.4	1226.0	1226.4	1227.4	1227.9	1226.9
15°	1252.1	1253.1	1253.1	1253.1	1255.9	1258.3	1259.7	1260.7	1262.6	1263.0	1261.1
17.5°	1285.4	1285.4	1284.9	1285.4	1288.2	1292.0	1293.5	1295.4	1297.3	1298.7	1296.3
20°	1322.5	1323.4	1323.4	1324.4	1328.2	1332.4	1332.4	1333.4	1332.4	1333.4	1332.0
22.5°	1367.6	1370.5	1370.5	1370.9	1374.8	1380.0	1378.6	1380.0	1377.6	1379.5	1377.6
25°	1426.6	1430.8	1429.9	1429.9	1432.7	1436.1	1436.5	1439.4	1438.9	1441.3	1439.9
27.5°	1493.1	1499.8	1501.7	1501.2	1503.1	1506.4	1507.4	1510.7	1508.8	1510.7	1509.8
30°	1573.0	1575.8	1579.6	1581.1	1583.4	1586.8	1586.8	1587.2	1584.9	1587.7	1589.1
32.5°	1655.7	1660.9	1664.7	1673.3	1677.6	1679.9	1679.5	1680.4	1678.0	1681.8	1684.7
35°	1765.0	1768.8	1775.0	1781.7	1787.4	1786.9	1785.5	1785.9	1785.9	1789.3	1792.1
37.5°	1896.7	1897.7	1905.7	1915.2	1918.1	1915.2	1906.7	1904.8	1900.5	1904.8	1909.5
40°	2036.0	2039.3	2055.5	2061.7	2063.1	2057.8	2045.5	2038.4	2028.9	2034.1	2040.7
42.5°	2181.9	2188.6	2203.3	2214.2	2219.0	2215.7	2198.6	2187.6	2175.3	2178.1	2184.8
45°	2343.5	2351.6	2372.5	2383.0	2392.0	2386.8	2370.2	2353.5	2334.0	2335.5	2345.9
47.5°	2524.2	2532.3	2559.4	2576.9	2581.7	2580.7	2562.2	2539.4	2512.8	2511.8	2520.9
50°	2726.7	2734.8	2768.5	2795.6	2809.4	2808.0	2786.1	2753.8	2721.5	2721.9	2733.3
52.5°	2924.4	2934.4	2969.6	3016.2	3043.3	3062.8	3049.5	3019.0	2979.6	2980.5	2991.0
55°	3109.8	3126.5	3166.9	3230.1	3280.5	3335.1	3350.8	3349.9	3326.1	3332.8	3343.2
57.5°	3199.7	3224.4	3286.7	3386.5	3489.2	3600.4	3694.5	3764.9	3794.8	3840.0	3829.5
60°	3029.5	3068.9	3160.7	3307.6	3510.6	3742.5	3991.2	4234.1	4441.3	4597.7	4507.9
62.5°	2480.4	2531.8	2643.0	2831.3	3138.3	3509.6	3985.4	4559.7	5185.3	5562.7	5293.2
65°	1552.1	1605.3	1718.4	1920.0	2279.4	2740.9	3386.5	4338.2	5507.1	6076.1	5527.5
67.5°	605.1	634.1	695.5	824.3	1094.3	1505.0	2152.9	3232.9	4631.0	5129.6	4544.9
70°	303.3	306.1	317.5	341.3	399.3	518.6	789.1	1498.8	2655.9	3207.8	2560.3
72.5°	219.1	219.6	225.3	235.8	254.3	280.9	332.3	458.7	863.7	1320.1	809.5
75°	167.8	169.7	173.0	178.7	188.7	202.0	220.6	264.3	327.5	379.8	319.4
77.5°	129.3	133.1	135.5	140.7	146.9	155.9	161.1	177.8	206.8	217.7	214.4
80°	98.4	101.7	107.0	111.2	115.5	119.8	117.9	125.5	140.7	149.7	145.0
82.5°	62.7	66.6	81.8	85.6	87.5	90.3	87.0	87.5	94.1	99.8	94.1
85°	40.4	42.8	51.8	56.6	57.0	58.9	57.5	54.2	54.2	49.4	55.6
87.5°	18.5	19.0	23.3	27.6	28.5	25.7	25.2	24.2	19.5	18.5	20.0
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°	1148.5	1148.5	1148.5	1148.5	1148.5	1148.5	1148.5	1148.5
2.5°	1148.0	1149.0	1149.4	1150.9	1151.3	1151.3	1151.8	1152.8
5°	1157.0	1158.5	1158.9	1160.8	1161.3	1160.8	1161.8	1162.3
7.5°	1173.2	1175.6	1176.5	1178.4	1177.0	1178.9	1179.4	1179.4
10°	1197.0	1199.3	1199.8	1201.7	1200.8	1201.7	1201.7	1200.8
12.5°	1228.3	1228.8	1227.4	1228.8	1226.9	1227.9	1226.4	1225.5
15°	1263.0	1261.6	1258.3	1258.3	1255.4	1255.9	1255.4	1255.0
17.5°	1296.8	1293.9	1291.6	1290.6	1288.2	1287.8	1286.3	1286.3
20°	1333.9	1332.4	1331.0	1329.1	1326.7	1324.4	1323.9	1324.8
22.5°	1378.6	1378.1	1378.1	1377.1	1373.8	1371.4	1370.0	1370.0
25°	1438.4	1434.2	1434.2	1433.7	1432.3	1430.8	1428.0	1429.4
27.5°	1506.0	1503.6	1505.5	1505.0	1503.6	1503.6	1501.7	1501.7
30°	1589.1	1588.2	1591.0	1588.7	1583.9	1583.4	1581.5	1579.2
32.5°	1685.2	1684.2	1688.5	1685.6	1678.0	1673.8	1670.0	1668.1
35°	1792.1	1792.6	1797.8	1795.9	1787.4	1784.5	1777.9	1776.9
37.5°	1909.1	1916.7	1925.7	1927.6	1920.5	1918.6	1911.4	1907.6
40°	2046.4	2056.4	2070.2	2073.5	2065.9	2064.5	2054.5	2049.3
42.5°	2192.9	2210.0	2227.1	2229.9	2222.3	2214.7	2205.2	2201.4
45°	2356.4	2376.8	2399.2	2404.9	2393.5	2384.4	2372.1	2372.1
47.5°	2539.9	2565.5	2590.7	2606.4	2596.0	2586.5	2571.7	2562.2
50°	2756.6	2791.8	2824.6	2840.8	2824.1	2806.1	2780.4	2771.8
52.5°	3028.5	3066.6	3095.1	3086.5	3060.9	3035.7	3007.6	2996.2
55°	3375.6	3388.4	3388.4	3356.1	3304.7	3262.4	3218.2	3203.5
57.5°	3809.6	3760.1	3684.1	3587.6	3466.3	3360.8	3289.5	3255.8
60°	4319.6	4081.9	3813.4	3549.5	3332.8	3154.0	3048.0	2999.5
62.5°	4659.5	4037.7	3499.6	3076.1	2764.2	2548.9	2402.5	2345.4
65°	4354.8	3367.5	2646.8	2140.1	1800.2	1581.1	1436.1	1382.8
67.5°	3189.7	2110.1	1409.5	1010.1	740.1	590.4	531.0	506.3
70°	1431.8	743.0	455.4	355.6	306.6	281.4	270.5	266.7
72.5°	431.6	312.3	263.4	237.7	218.2	205.8	196.8	195.8
75°	260.5	216.8	192.5	177.3	165.0	155.0	150.2	148.8
77.5°	182.1	159.2	147.8	136.9	127.4	119.8	115.5	112.2
80°	127.9	116.9	111.7	105.5	99.4	92.2	86.0	83.2
82.5°	85.6	83.2	83.2	79.4	74.2	67.5	55.1	52.3
85°	55.1	54.7	55.6	54.2	50.4	43.3	35.7	33.8
87.5°	25.7	26.1	29.0	28.5	27.6	22.8	18.1	17.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)