

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: P298921

Luminaire Tested: **GLNA-AF-02-LED-E1-T2-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298921
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-02-LED-E1-T2-7027-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8359.8 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B2 - U0 - G2

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

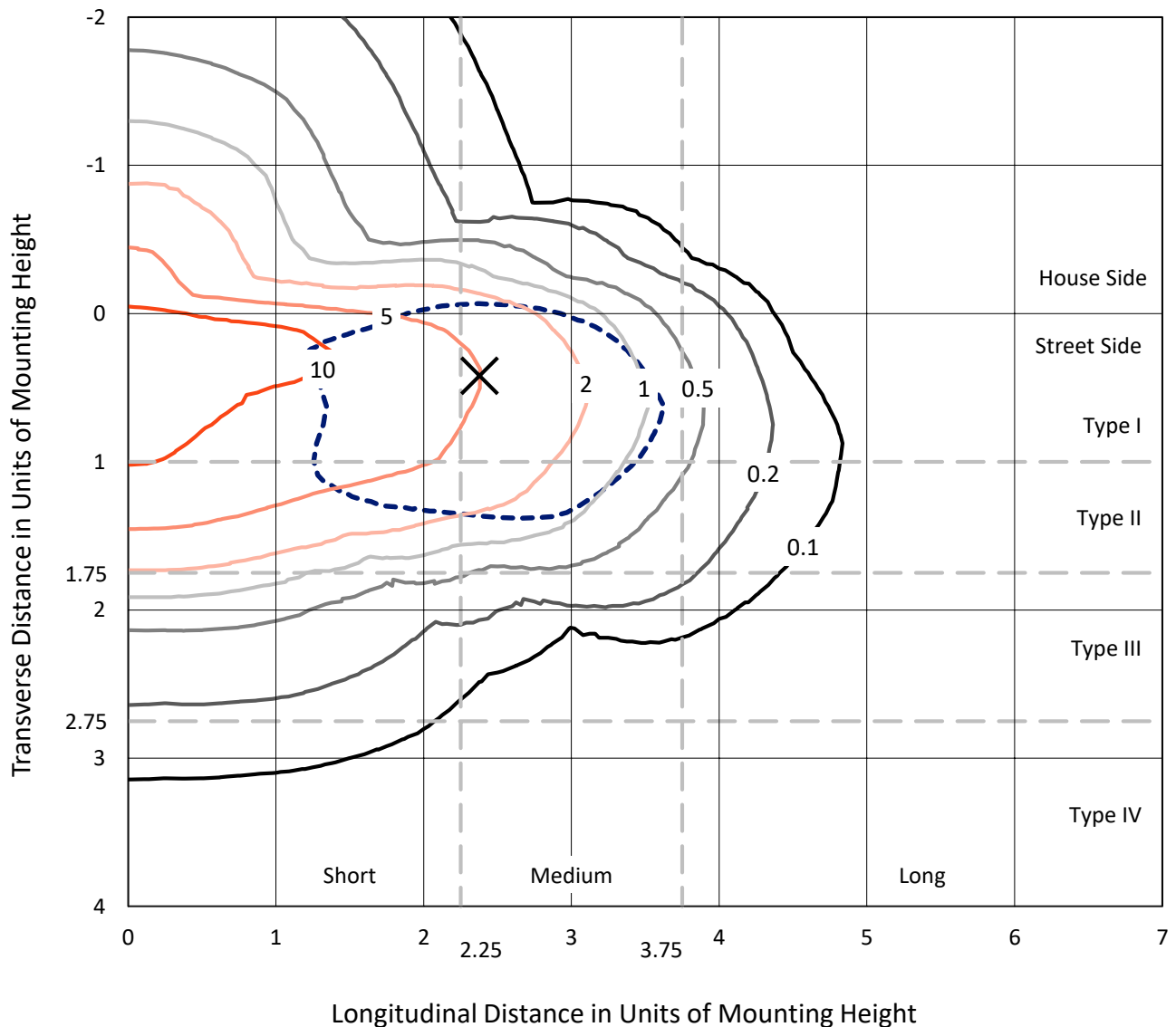


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

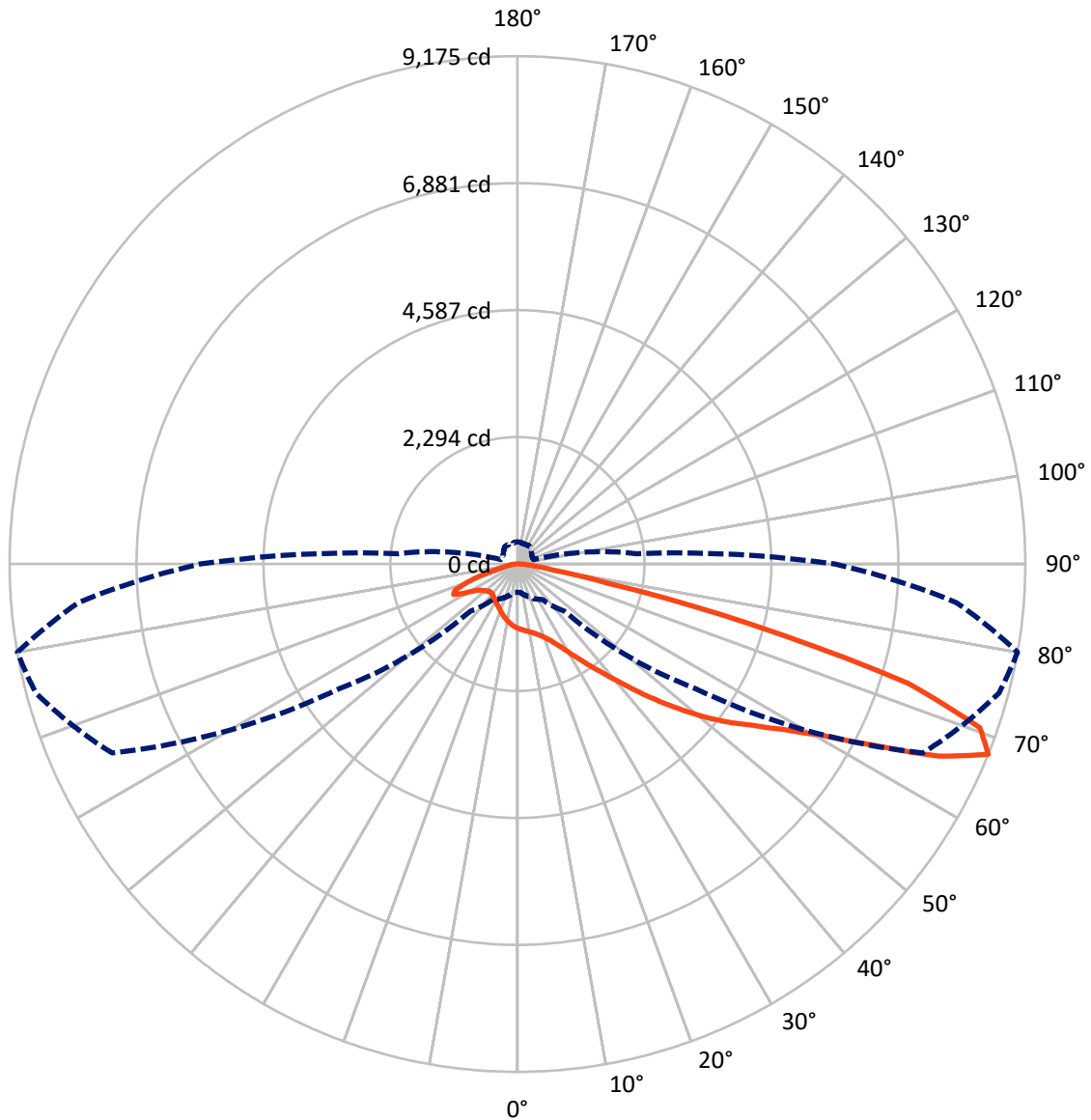


Based on 10 foot mounting height. Maximum calculated value = 14.1 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1539.6	0.0	1539.6
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	6820.2	0.0	6820.2
	% Fixture	81.6	0.0	81.6
Total	Lumens	8359.8	0.0	8359.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.1	1.3
10°-20°	308.6	3.7
20°-30°	510.8	6.1
30°-40°	835.6	10.0
40°-50°	1349.2	16.1
50°-60°	1947.8	23.3
60°-70°	2149.5	25.7
70°-80°	990.8	11.9
80°-90°	160.3	1.9
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°	8359.8	100.0
0°-180°	8359.8	100.0



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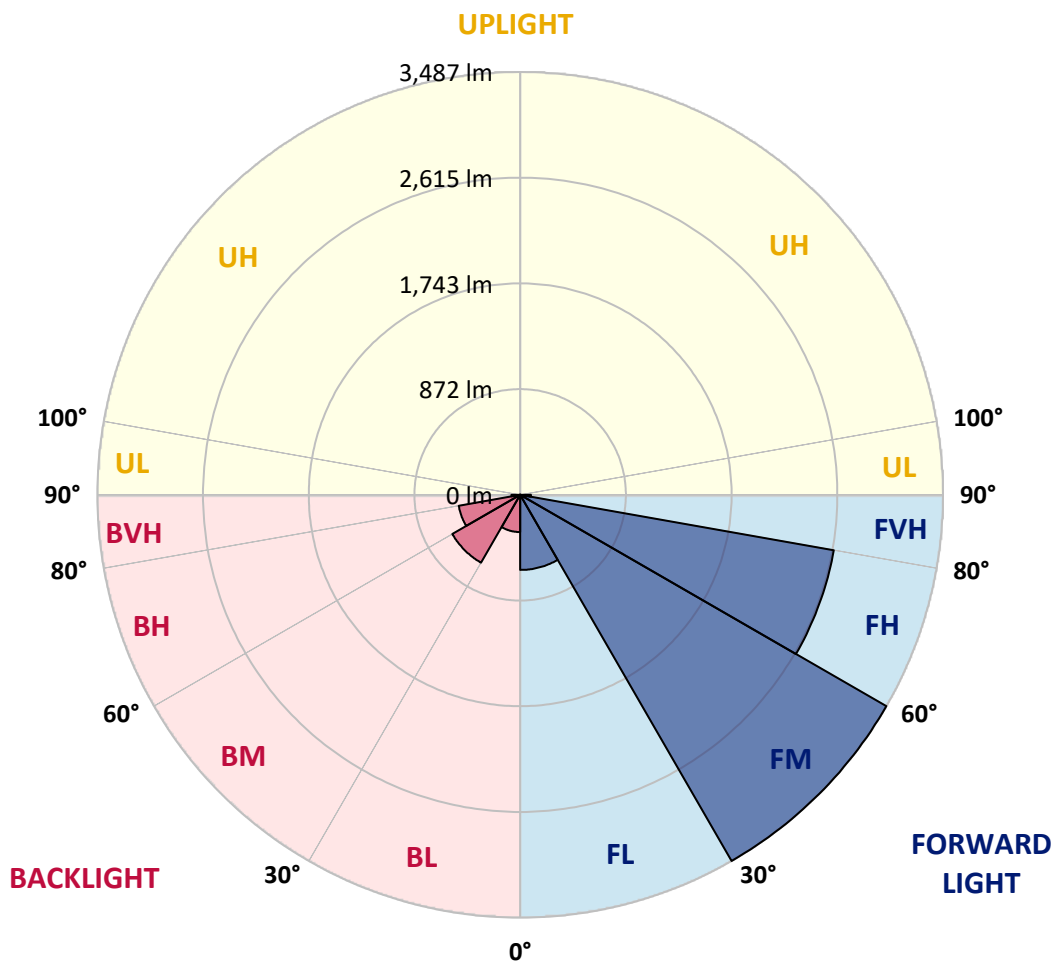
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	619.4	7.4			
FM (30°-60°)	3486.6	41.7			
FH (60°-80°)	2626.0	31.4			G2/5000
FVH (80°-90°)	88.1	1.1			G1/100
BL (0°-30°)	307.2	3.7	B1/500		
BM (30°-60°)	645.9	7.7	B1/1000		
BH (60°-80°)	514.3	6.2	B2/1000		G2/1000
BVH (80°-90°)	72.1	0.9			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	1161.4	1161.4	1161.4	1161.4	1161.4	1161.4	1161.4	1161.4	1161.4	1161.4	1161.4
2.5°	1270.5	1263.1	1264.3	1262.2	1256.1	1245.4	1233.9	1212.9	1191.0	1179.5	1170.5
5°	1376.7	1374.6	1371.7	1365.1	1349.5	1327.3	1299.7	1262.7	1222.7	1201.8	1181.6
7.5°	1456.1	1454.9	1451.2	1447.0	1431.8	1405.1	1363.5	1310.8	1252.8	1224.0	1192.7
10°	1462.7	1464.7	1467.6	1478.7	1480.8	1466.4	1424.0	1360.2	1284.1	1247.0	1207.1
12.5°	1406.7	1411.2	1422.3	1450.7	1480.8	1498.5	1476.7	1412.1	1320.7	1275.8	1225.2
15°	1332.6	1335.1	1348.7	1387.8	1441.7	1496.4	1517.0	1469.3	1368.0	1312.9	1252.4
17.5°	1300.9	1302.2	1311.6	1337.6	1387.8	1466.0	1539.6	1531.4	1426.0	1359.0	1285.7
20°	1284.9	1287.8	1301.3	1326.9	1358.6	1426.9	1542.9	1598.5	1495.2	1416.6	1327.7
22.5°	1330.6	1329.3	1334.3	1347.0	1373.8	1414.9	1540.5	1667.6	1583.3	1490.7	1382.4
25°	1437.2	1441.7	1433.0	1418.6	1427.3	1456.1	1553.6	1742.5	1693.6	1585.7	1454.0
27.5°	1589.0	1584.5	1571.7	1538.0	1520.3	1532.6	1597.3	1823.2	1830.6	1710.8	1548.7
30°	1740.5	1736.8	1724.4	1683.3	1647.1	1636.8	1682.0	1915.8	1994.0	1861.1	1664.8
32.5°	1897.7	1893.6	1882.1	1840.9	1797.3	1773.4	1802.6	2022.8	2186.6	2040.5	1801.4
35°	2091.5	2083.7	2059.4	2002.2	1959.4	1940.9	1954.5	2157.4	2408.9	2252.9	1967.2
37.5°	2273.9	2285.8	2261.1	2182.1	2126.5	2119.9	2135.2	2321.6	2648.4	2490.3	2157.8
40°	2457.0	2459.1	2436.8	2372.2	2315.0	2304.3	2342.6	2520.8	2931.1	2774.3	2389.5
42.5°	2646.3	2650.4	2613.0	2553.3	2511.3	2513.4	2557.0	2754.1	3255.4	3108.9	2656.2
45°	2870.6	2876.8	2835.6	2757.4	2719.2	2796.1	2778.0	3015.9	3611.0	3489.2	2962.4
47.5°	3105.2	3114.7	3083.4	3010.1	2962.4	3068.2	2999.0	3306.0	3993.8	3897.0	3298.6
50°	3233.2	3246.8	3277.2	3271.9	3261.6	3243.9	3245.5	3617.2	4388.4	4321.8	3644.3
52.5°	3164.5	3164.1	3275.2	3410.2	3554.2	3564.9	3546.0	3945.2	4757.2	4737.0	3969.9
55°	2850.0	2871.4	3039.8	3301.1	3694.6	3940.3	3996.2	4321.0	5119.4	5142.8	4300.4
57.5°	2326.5	2344.2	2571.4	2935.6	3505.2	4163.3	4636.6	4867.1	5524.3	5633.8	4740.3
60°	1577.9	1599.3	1840.1	2277.6	2995.7	4039.0	5246.1	5841.7	6009.2	6258.2	5357.7
62.5°	927.2	946.6	1142.9	1436.7	2109.2	3461.6	5513.6	7228.2	6779.2	7200.2	6299.3
65°	638.3	651.5	747.0	894.3	1212.0	2331.5	5181.9	8185.5	7964.1	8367.4	7391.2
67.5°	513.6	512.0	587.7	688.1	780.3	1202.2	3918.4	8077.2	9006.1	9174.5	7957.9
70°	423.1	421.4	472.9	556.0	623.5	677.0	2134.3	6816.2	8793.8	8862.1	7436.0
72.5°	353.9	355.6	388.5	450.2	511.6	509.9	937.9	4795.1	6917.9	7390.4	5927.7
75°	298.8	299.6	321.4	365.1	415.3	410.7	508.7	2597.8	4021.3	4350.2	3285.9
77.5°	254.3	255.2	269.2	293.4	329.2	327.6	371.2	1122.3	1677.5	1656.9	1124.0
80°	226.8	226.8	233.4	237.9	257.6	250.2	275.3	539.1	709.1	654.8	448.6
82.5°	177.8	178.6	218.9	217.3	202.9	193.4	193.4	317.7	375.8	347.4	262.6
85°	100.0	99.6	141.2	170.4	178.6	136.2	135.0	177.8	204.5	180.3	127.2
87.5°	42.8	43.6	65.4	75.7	101.2	84.8	83.5	91.8	104.1	90.1	58.9
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1161.4	1161.4	1161.4	1161.4	1161.4	1161.4	1161.4	1161.4	1161.4	1161.4	1161.4
2.5°	1161.8	1151.1	1127.7	1098.4	1072.1	1054.8	1039.2	1016.5	1017.8	1002.1	990.6
5°	1161.0	1138.8	1084.5	1019.8	957.7	912.8	879.1	848.6	841.2	826.8	818.2
7.5°	1161.8	1125.6	1034.2	930.9	854.0	797.2	768.4	752.3	748.6	743.7	744.1
10°	1164.7	1113.7	979.1	847.8	767.1	729.7	722.7	727.6	733.4	735.0	735.5
12.5°	1171.3	1103.0	918.6	773.7	712.8	701.3	713.2	730.1	741.2	746.6	746.2
15°	1186.1	1094.7	860.6	715.7	682.8	688.9	711.2	735.0	751.1	758.5	758.9
17.5°	1202.2	1082.8	800.9	671.3	660.6	676.2	703.8	731.8	751.5	759.7	761.4
20°	1223.2	1068.0	738.3	637.9	639.6	657.3	683.2	711.2	733.0	740.0	743.3
22.5°	1250.7	1051.9	683.6	610.8	615.7	629.3	649.4	673.7	692.7	695.9	698.8
25°	1287.8	1034.7	640.0	586.1	588.1	595.9	609.5	623.9	637.1	633.4	636.3
27.5°	1337.6	1019.8	607.5	563.4	559.7	561.4	568.4	572.9	579.9	569.6	570.8
30°	1396.0	1003.8	582.4	543.7	533.4	530.5	532.1	534.6	540.0	526.0	523.9
32.5°	1463.9	984.4	558.9	526.4	512.0	506.2	507.0	513.6	534.2	525.6	521.0
35°	1542.9	962.6	534.2	507.5	497.6	489.3	488.5	509.1	570.4	565.1	561.0
37.5°	1635.5	940.8	509.5	486.1	486.9	477.8	474.9	498.4	577.4	556.4	553.5
40°	1753.2	929.3	488.5	463.4	473.7	472.5	466.7	478.6	531.3	493.0	488.1
42.5°	1898.9	930.9	472.9	439.1	458.1	471.2	462.2	462.6	481.5	452.7	448.2
45°	2078.8	950.3	461.8	419.8	440.4	470.0	460.5	453.9	455.6	440.4	437.9
47.5°	2288.7	990.2	453.9	403.7	423.5	465.5	460.1	451.5	447.8	439.5	437.5
50°	2522.0	1048.2	448.2	388.5	408.3	458.1	460.5	449.0	444.9	441.6	440.4
52.5°	2751.3	1114.5	439.5	375.3	396.3	449.0	461.8	446.5	442.0	439.5	438.3
55°	3006.8	1197.2	426.4	364.2	386.5	437.5	461.8	442.8	437.9	438.3	437.9
57.5°	3352.1	1331.0	410.7	354.8	374.5	423.5	453.9	438.7	432.5	433.0	433.4
60°	3891.7	1566.8	391.8	345.3	359.7	407.0	443.2	429.7	423.5	425.1	425.6
62.5°	4685.2	1912.9	367.1	331.3	344.1	389.3	428.4	418.1	412.0	416.1	416.1
65°	5509.9	2218.3	336.7	313.6	327.6	370.0	409.9	403.7	397.6	407.0	406.6
67.5°	5731.8	2150.0	306.2	294.3	311.1	348.6	387.7	384.4	381.1	397.6	396.7
70°	5091.8	1726.1	278.2	274.5	293.0	325.5	363.8	363.8	361.8	374.1	371.2
72.5°	3879.3	1224.0	251.5	253.5	272.5	300.4	337.9	340.8	337.5	343.7	341.2
75°	2076.7	700.5	224.7	230.5	246.9	274.9	309.1	312.0	309.9	309.5	310.7
77.5°	690.2	342.4	196.7	205.8	220.2	248.6	279.0	283.6	278.6	277.8	277.4
80°	307.4	215.2	165.9	177.8	190.6	218.5	247.3	251.1	245.7	253.1	243.6
82.5°	197.5	141.6	132.9	146.1	158.4	188.5	215.7	216.5	211.5	245.7	209.5
85°	95.9	87.7	100.0	111.9	122.6	148.2	178.6	179.0	166.7	151.9	146.5
87.5°	47.7	51.0	66.7	77.4	82.7	101.7	130.1	127.6	122.2	111.1	102.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)