

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: LUMARK

Report Number: P272335

Luminaire Tested: **CTKR2-B1-D-UNV-T2**

Issue Date: 9/28/2018

Test Information

Test Method: LM-79-08
Report Number: P272335
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-939-3)
Test Lab: INNOVATIONS CENTER(G2)
Issue Date: 9/28/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: CTKR2-B1-D-UNV-T2
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K LED WITH TYPE II OPTIC AND U0 SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4246 lumens
Efficiency: N/A
Efficacy: 145.9 lumens/watt
Luminous Opening: Circular (Dia: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

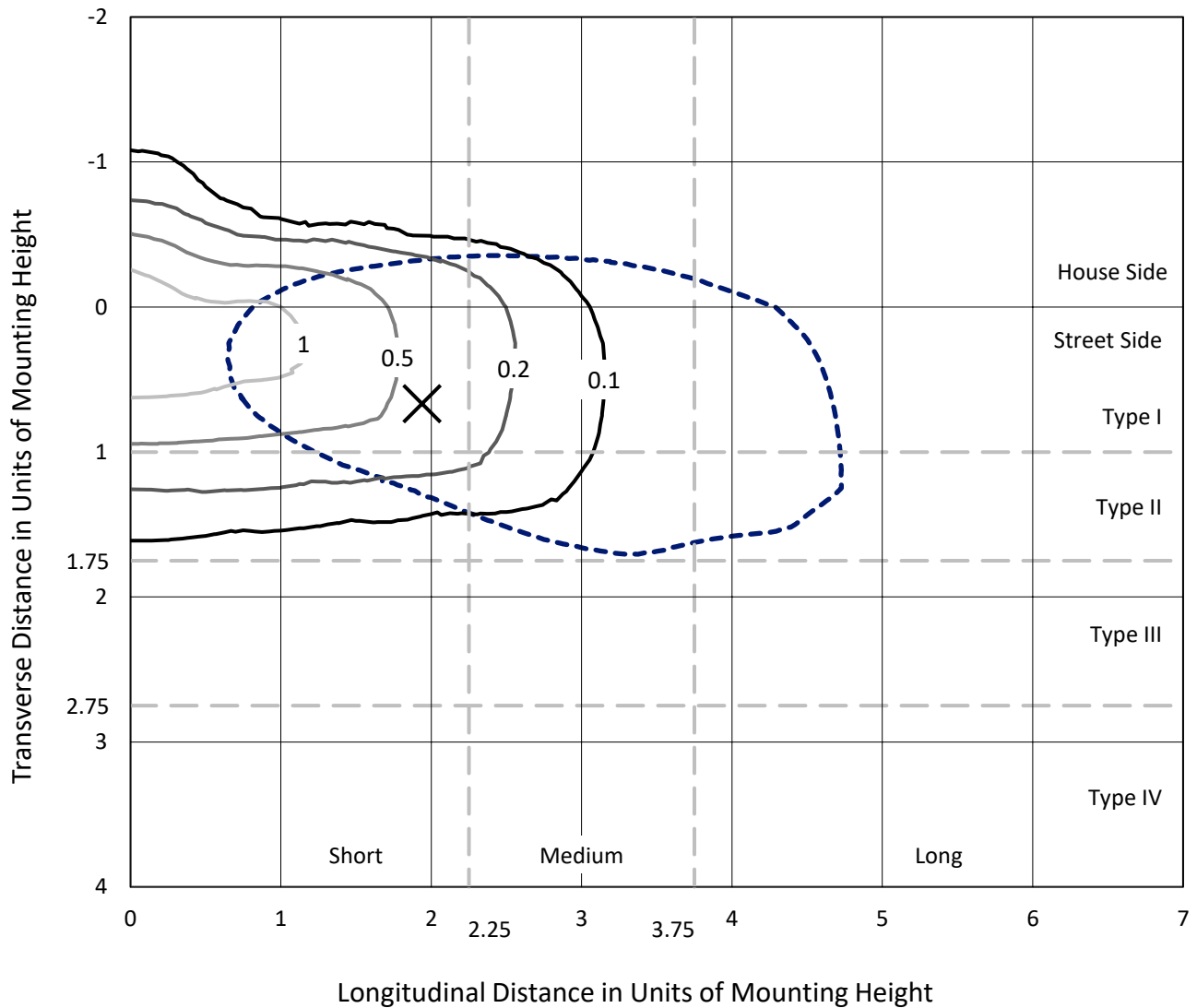
Input Watts (W): 29.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

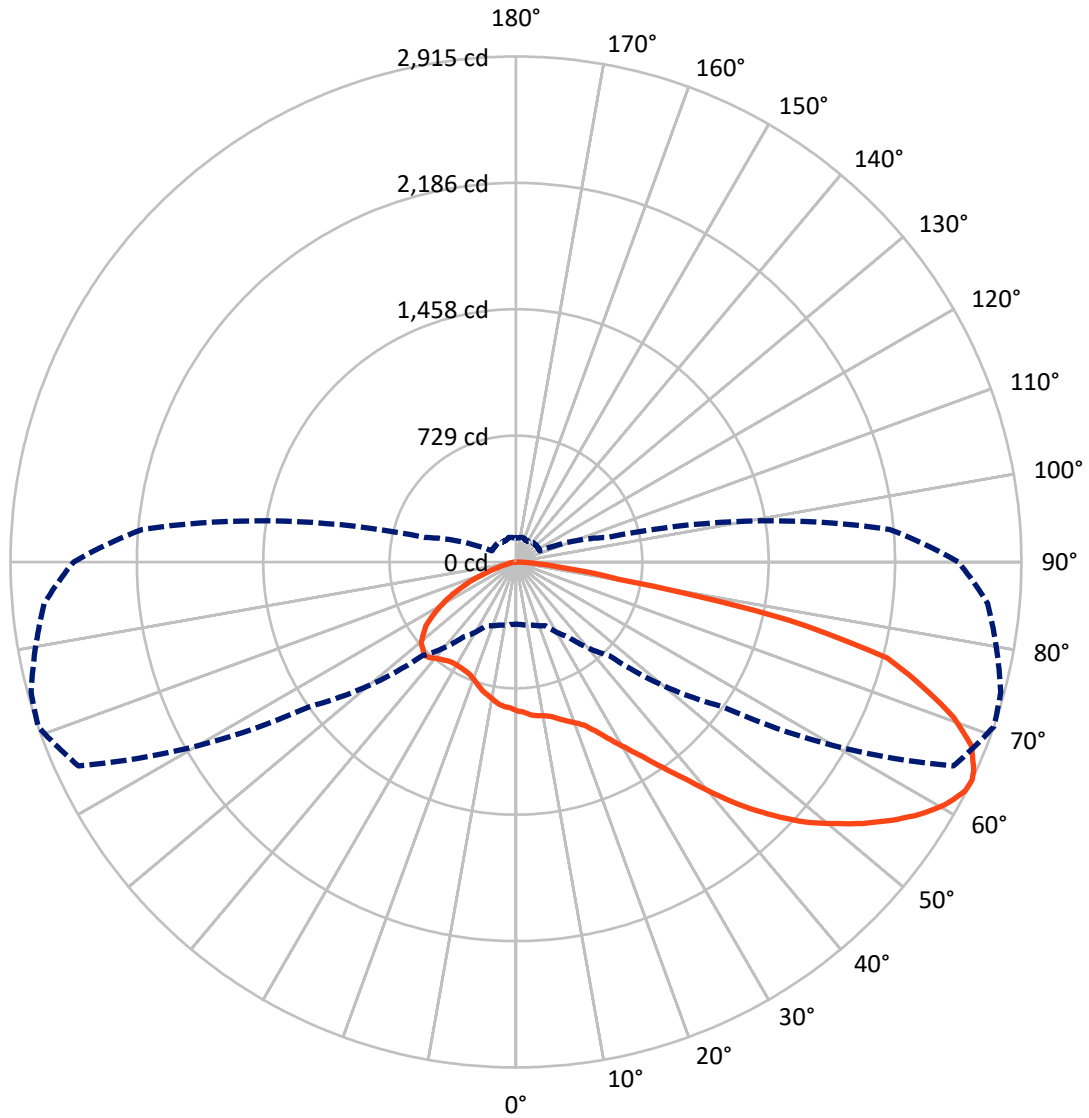
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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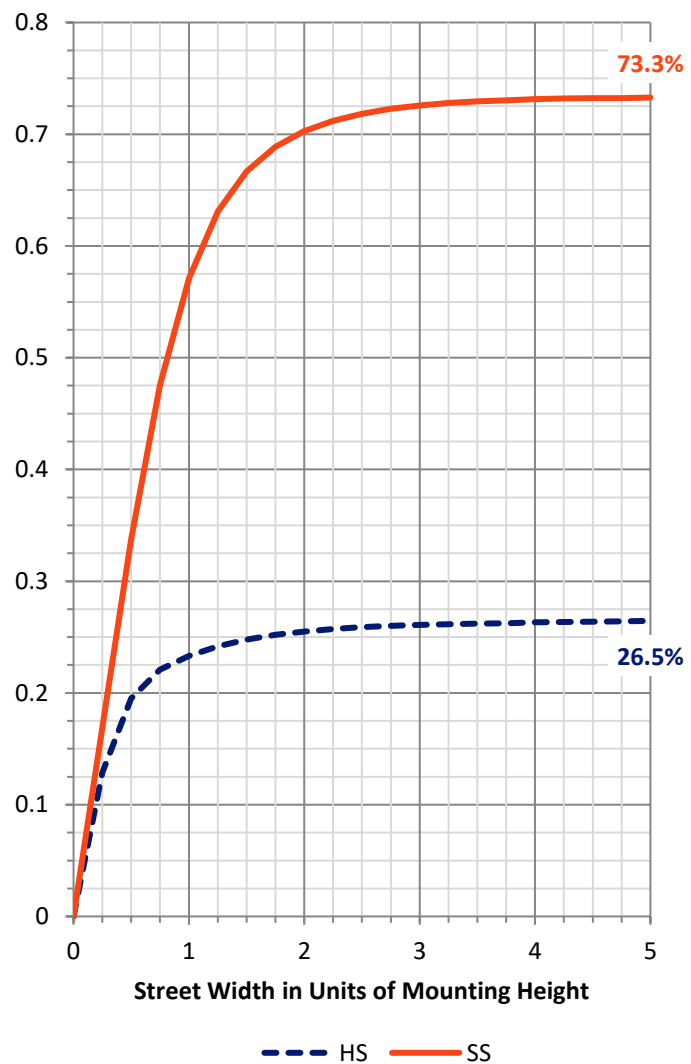
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1138.3	0.0	1138.3
	% Fixture	26.8	0.0	26.8
Street Side	Lumens	3107.7	0.0	3107.7
	% Fixture	73.2	0.0	73.2
Total	Lumens	4246.0	0.0	4246.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.3	1.9
10°-20°	240.8	5.7
20°-30°	385.8	9.1
30°-40°	535.7	12.6
40°-50°	713.7	16.8
50°-60°	846.3	19.9
60°-70°	857.0	20.2
70°-80°	523.3	12.3
80°-90°	61.0	1.4
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°	4246.0	100.0
0°-180°	4246.0	100.0

Coefficient of Utilization

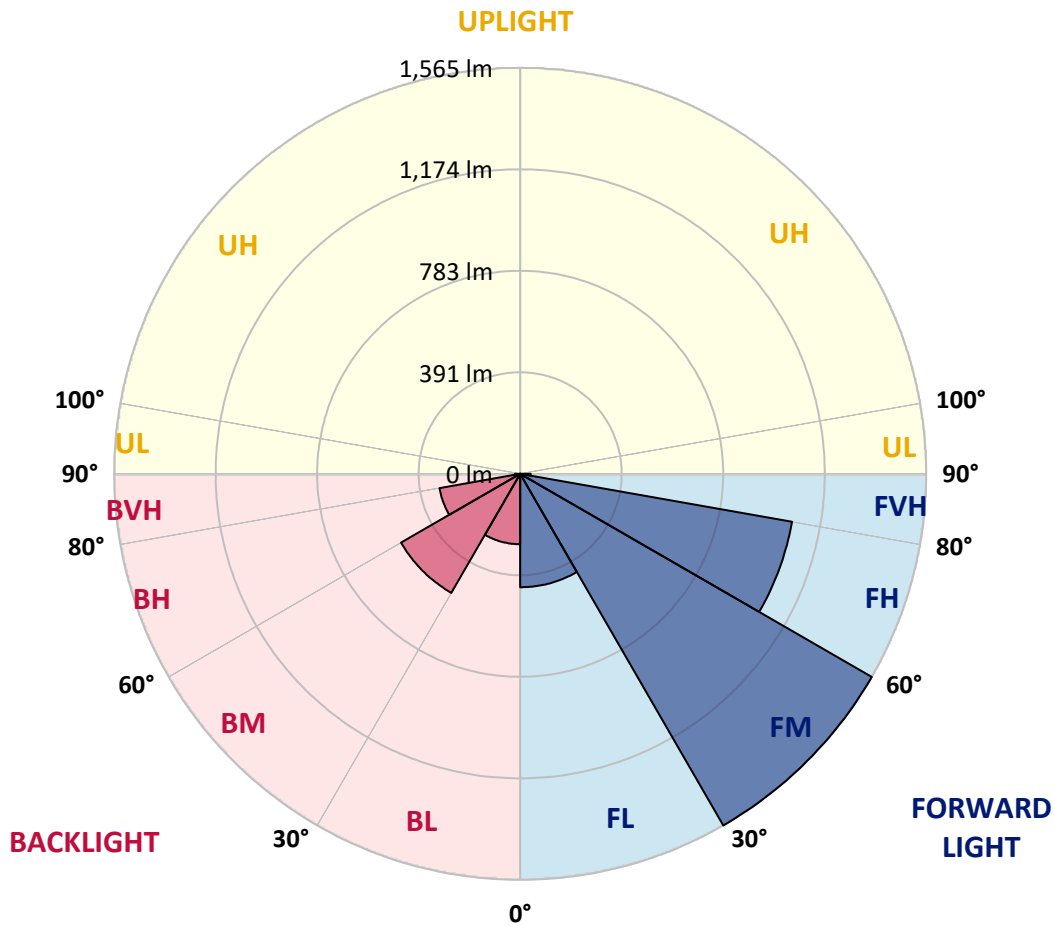


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	437.3	10.3			
FM (30°-60°)	1565.5	36.9			
FH (60°-80°)	1064.4	25.1			G1/1800
FVH (80°-90°)	40.5	1.0			G1/100
BL (0°-30°)	271.5	6.4	B1/500		
BM (30°-60°)	530.3	12.5	B1/1000		
BH (60°-80°)	316.0	7.4	B1/500		G1/500
BVH (80°-90°)	20.5	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	858.2	858.2	858.2	858.2	858.2	858.2	858.2	858.2	858.2	858.2	858.2
2.5°	894.4	892.4	891.4	889.4	885.9	883.0	879.0	871.0	867.6	862.1	854.2
5°	935.5	934.0	932.1	928.1	923.1	912.7	903.3	891.9	885.4	878.5	863.1
7.5°	967.3	965.8	964.3	961.8	955.4	943.0	925.1	906.3	895.9	886.4	866.1
10°	993.1	992.1	989.1	984.6	974.7	960.3	941.5	917.2	901.3	889.4	860.6
12.5°	1025.3	1024.8	1017.9	1009.9	999.0	984.6	961.3	936.0	915.2	899.3	860.6
15°	1053.1	1051.6	1045.7	1037.2	1025.8	1012.4	989.6	959.8	939.5	918.7	870.6
17.5°	1064.0	1062.5	1058.1	1052.1	1047.1	1034.7	1015.9	986.6	964.8	942.5	884.4
20°	1073.4	1071.0	1069.5	1069.5	1066.5	1057.1	1041.2	1016.9	991.1	965.3	900.3
22.5°	1064.5	1068.5	1081.9	1092.3	1093.8	1088.8	1078.9	1055.6	1024.8	1000.5	925.6
25°	1067.5	1068.0	1094.3	1118.1	1125.5	1128.5	1123.5	1109.6	1084.3	1062.0	968.8
27.5°	1067.0	1071.9	1091.8	1121.1	1150.8	1164.7	1174.6	1175.1	1159.2	1137.9	1028.8
30°	1051.1	1054.6	1079.4	1120.6	1169.2	1203.4	1224.7	1253.0	1241.6	1218.8	1104.7
32.5°	1019.9	1019.4	1049.6	1112.1	1187.0	1246.6	1286.2	1334.4	1336.3	1316.5	1196.9
35°	970.8	972.2	1012.4	1087.8	1191.0	1285.7	1346.3	1433.1	1453.9	1449.9	1328.9
37.5°	922.6	924.1	969.8	1057.1	1188.5	1317.5	1406.8	1534.8	1585.3	1609.7	1494.1
40°	871.5	876.0	922.1	1016.9	1172.1	1337.3	1472.3	1648.3	1755.0	1790.7	1661.2
42.5°	815.5	820.9	879.5	979.2	1145.9	1346.3	1531.8	1792.7	1927.1	1951.4	1802.1
45°	770.8	772.8	816.0	908.3	1103.7	1353.2	1591.8	1965.8	2086.8	2112.1	1935.6
47.5°	727.2	728.7	763.9	846.7	1046.6	1345.8	1653.8	2104.7	2240.6	2252.0	2055.1
50°	553.1	558.0	695.4	791.7	972.7	1321.0	1713.3	2259.0	2371.6	2379.0	2167.7
52.5°	492.1	497.5	535.2	734.1	895.4	1266.9	1757.5	2417.2	2505.5	2493.6	2285.8
55°	460.3	464.8	484.6	590.3	823.9	1174.6	1780.8	2562.5	2629.5	2606.2	2394.9
57.5°	433.5	438.0	454.4	502.0	743.1	1040.7	1766.9	2689.0	2747.1	2710.4	2509.0
60°	402.8	406.3	426.6	457.4	651.3	914.2	1691.0	2789.2	2843.8	2807.1	2615.6
62.5°	376.0	381.0	394.8	421.6	565.5	814.5	1537.7	2821.0	2908.3	2881.5	2700.9
64°	358.1	362.6	377.0	405.3	528.8	764.9	1453.9	2783.3	2915.2	2894.9	2730.7
65°	344.7	348.7	365.1	390.9	499.0	739.6	1384.5	2745.6	2901.3	2895.9	2737.2
67.5°	310.0	312.5	329.9	350.2	429.6	668.7	1186.0	2697.5	2833.4	2822.0	2690.0
70°	272.3	272.3	286.7	307.5	364.1	582.8	985.1	2525.8	2676.6	2636.5	2520.4
72.5°	225.2	224.2	236.1	262.4	303.1	491.1	758.0	2236.7	2449.5	2455.4	2269.9
75°	128.0	126.5	135.9	179.1	223.7	393.4	526.8	1725.7	2213.3	2233.2	1957.4
77.5°	18.8	19.3	23.8	36.7	56.1	170.6	214.8	854.7	1605.2	1782.8	1521.4
80°	15.4	15.4	18.8	28.8	40.7	99.7	71.9	315.5	601.7	920.7	891.9
82.5°	6.9	7.4	12.4	18.8	26.3	22.3	27.8	159.2	276.3	355.2	440.0
85°	4.5	4.5	6.9	9.4	10.4	7.9	6.4	64.0	122.0	160.7	174.6
87.5°	2.5	2.5	3.0	3.0	2.5	2.0	2.0	1.5	2.0	3.5	6.9
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°	858.2	858.2	858.2	858.2	858.2	858.2	858.2	858.2	858.2	858.2	858.2
2.5°	851.7	847.7	843.3	841.8	839.8	836.8	832.9	829.9	827.9	827.9	827.9
5°	857.7	850.7	840.8	830.4	820.5	813.5	809.0	803.6	804.1	803.1	804.1
7.5°	858.2	849.2	831.9	814.0	800.6	789.7	780.8	775.8	773.3	776.8	777.8
10°	849.2	837.3	810.0	794.7	771.3	755.5	744.1	737.6	741.1	745.6	745.6
12.5°	845.3	828.9	795.7	765.9	748.5	722.7	710.3	702.4	709.3	710.3	709.8
15°	848.2	825.4	782.3	743.6	711.3	696.4	671.6	663.7	677.6	681.1	682.1
17.5°	852.2	822.9	764.4	711.3	673.1	652.8	625.5	614.6	629.0	641.9	642.4
20°	858.6	820.0	748.5	679.6	627.0	601.7	577.4	568.0	574.9	594.3	595.2
22.5°	879.5	824.4	734.6	653.8	590.8	554.1	532.3	516.4	518.9	538.7	540.2
25°	915.2	846.7	731.7	635.4	556.1	508.4	489.6	467.8	464.8	480.2	482.6
27.5°	963.3	881.0	737.1	614.1	523.3	463.8	441.5	415.2	406.3	417.7	421.1
30°	1024.8	927.1	746.0	594.3	486.1	412.2	378.0	359.1	351.7	359.1	361.1
32.5°	1100.2	983.2	758.0	575.9	443.5	350.2	312.0	306.1	295.1	298.6	302.1
35°	1219.8	1063.5	784.7	553.6	397.3	294.6	267.4	256.9	247.5	249.5	254.0
37.5°	1359.6	1177.1	820.5	533.2	345.7	258.9	226.7	218.3	217.3	218.8	221.7
40°	1521.4	1310.5	863.6	505.0	293.7	227.7	188.0	190.0	198.4	200.4	205.4
42.5°	1643.4	1449.4	923.1	470.7	252.0	194.9	163.2	177.6	196.4	199.9	206.4
45°	1770.4	1539.2	975.7	423.6	221.7	164.7	156.7	176.6	196.4	201.9	205.9
47.5°	1884.0	1650.8	981.2	361.6	190.0	152.8	157.2	174.6	194.4	196.9	197.9
50°	1981.2	1760.0	1005.5	287.2	174.1	153.3	159.2	171.1	189.5	191.0	189.0
52.5°	2104.2	1872.1	980.2	223.2	164.2	156.3	163.2	167.2	185.0	184.5	185.5
55°	2224.2	1969.8	934.5	195.9	158.7	158.2	166.7	165.2	179.1	181.6	183.5
57.5°	2342.8	2055.1	837.3	184.5	158.2	159.2	163.2	162.2	178.6	178.6	175.6
60°	2441.5	2121.1	730.7	177.1	158.7	159.2	155.8	156.7	171.1	173.6	173.1
62.5°	2517.9	2162.2	620.5	162.7	155.8	154.3	144.8	145.3	155.8	152.3	149.8
64°	2551.6	2161.7	547.6	152.3	151.3	150.8	138.9	137.4	147.3	139.9	138.4
65°	2562.5	2144.9	503.5	145.3	144.3	147.3	134.4	132.4	141.4	132.9	131.9
67.5°	2485.7	2024.8	382.4	131.9	126.0	131.5	122.5	118.6	121.5	114.6	113.6
70°	2279.8	1806.1	257.4	113.6	110.1	117.1	113.1	107.1	99.2	93.8	94.2
72.5°	2003.0	1567.0	152.3	90.8	93.3	105.2	103.2	93.3	82.3	75.4	74.9
75°	1730.2	1284.3	95.2	60.0	62.0	83.3	84.8	77.4	71.4	73.4	77.4
77.5°	1360.6	928.1	62.5	29.8	27.8	48.1	53.1	46.6	62.5	97.2	95.2
80°	766.4	562.0	49.6	18.4	18.4	26.3	38.7	42.7	87.3	63.0	59.5
82.5°	385.9	271.8	27.8	11.9	11.4	14.4	22.3	69.9	59.5	40.7	39.2
85°	148.8	81.4	8.4	6.9	6.9	8.4	11.9	67.5	38.2	29.8	29.3
87.5°	5.5	2.0	2.5	3.0	3.5	3.5	4.0	7.4	8.4	9.4	8.9
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)