

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: P960529

Luminaire Tested: **NAV-SB1C-835-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960529
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-835-U-SL3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3500K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6960.8 lumens
Efficiency: N/A
Efficacy: 128.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 54.4
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: 24 FT



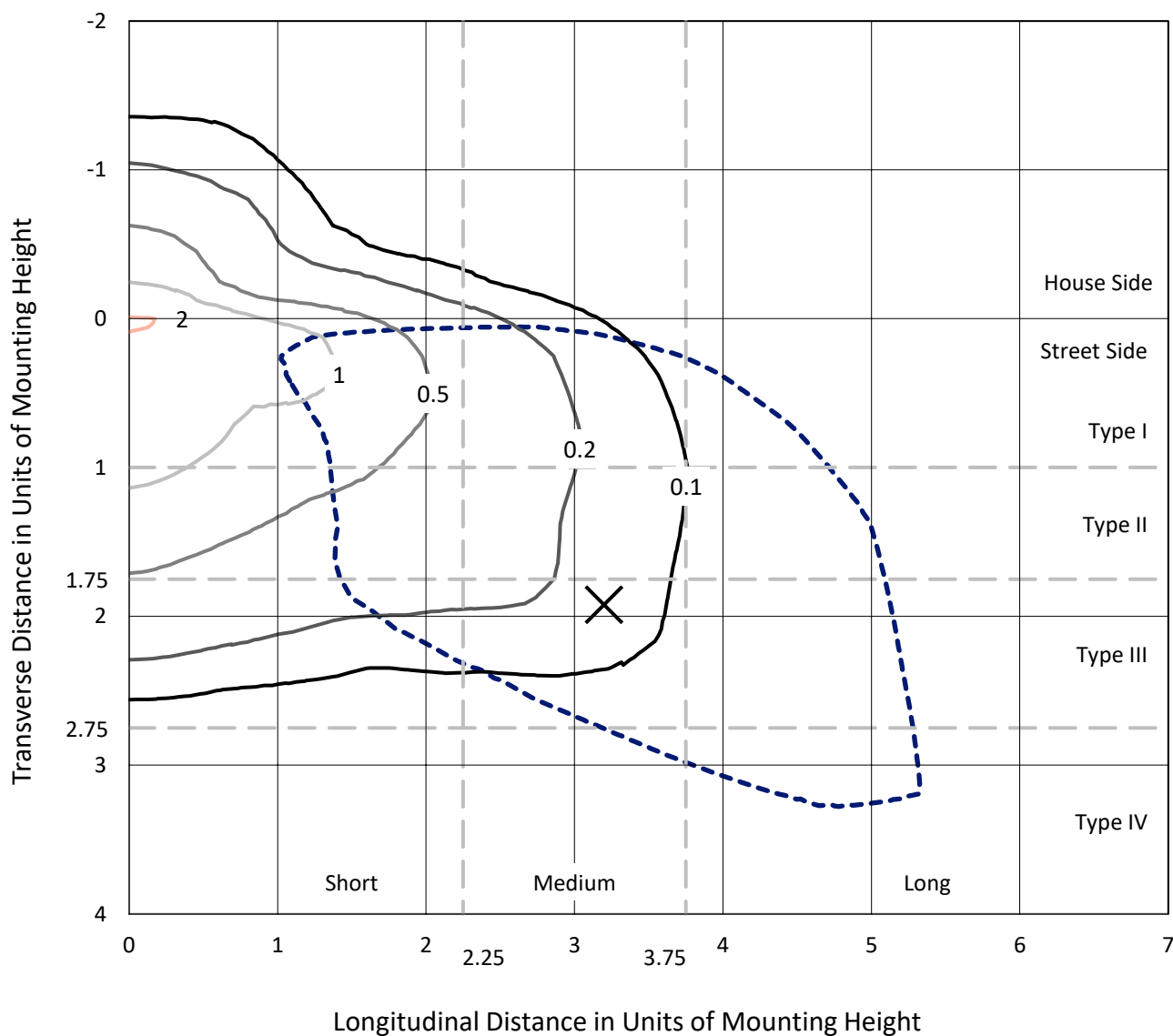
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

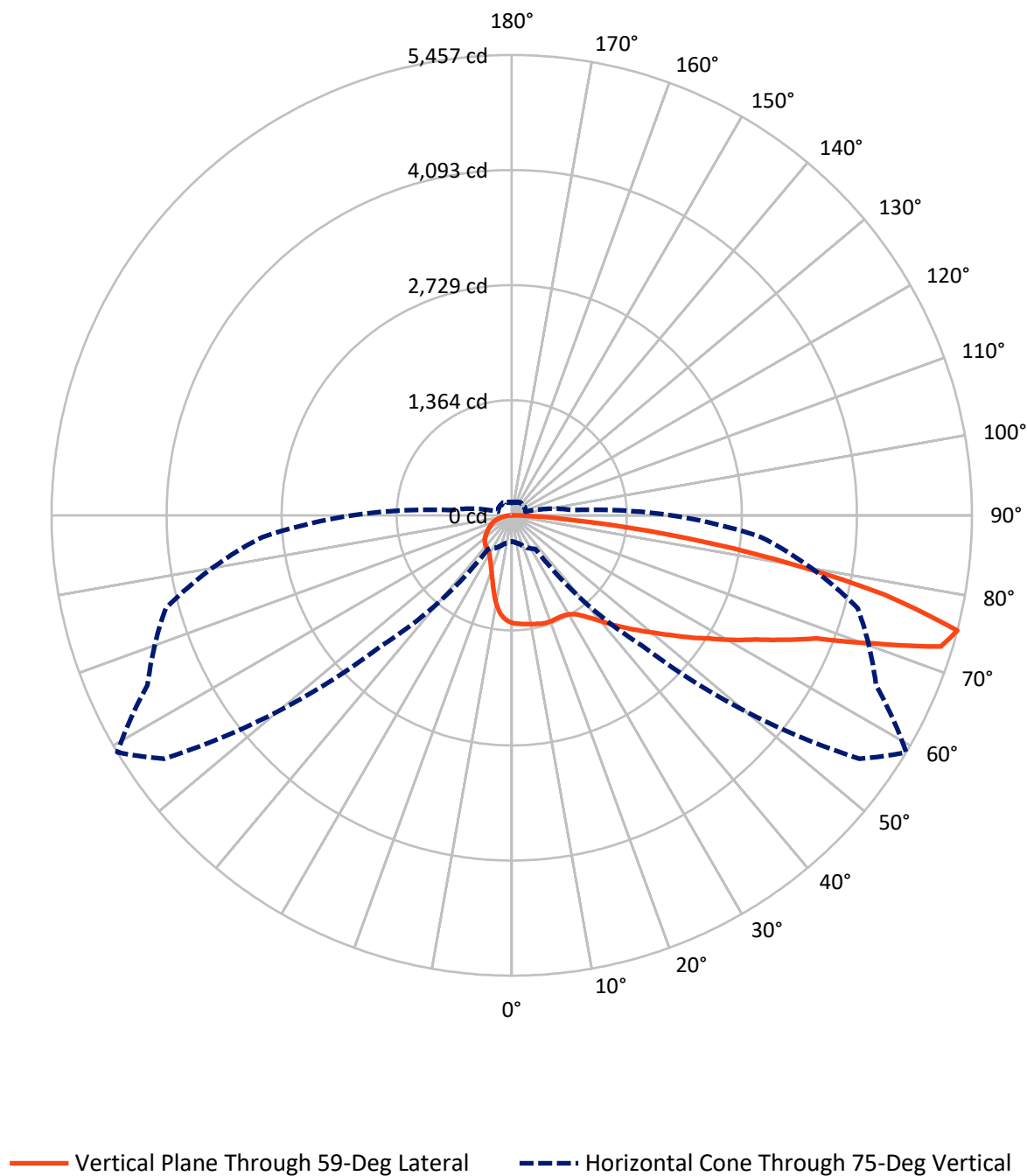
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1305.5	0.0	1305.5
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	5655.2	0.0	5655.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	6960.8	0.0	6960.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.6	1.6
10°-20°	292.8	4.2
20°-30°	444.8	6.4
30°-40°	661.2	9.5
40°-50°	983.3	14.1
50°-60°	1334.6	19.2
60°-70°	1629.4	23.4
70°-80°	1278.7	18.4
80°-90°	221.5	3.2
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°	6960.8	100.0
0°-180°	6960.8	100.0

Coefficient of Utilization



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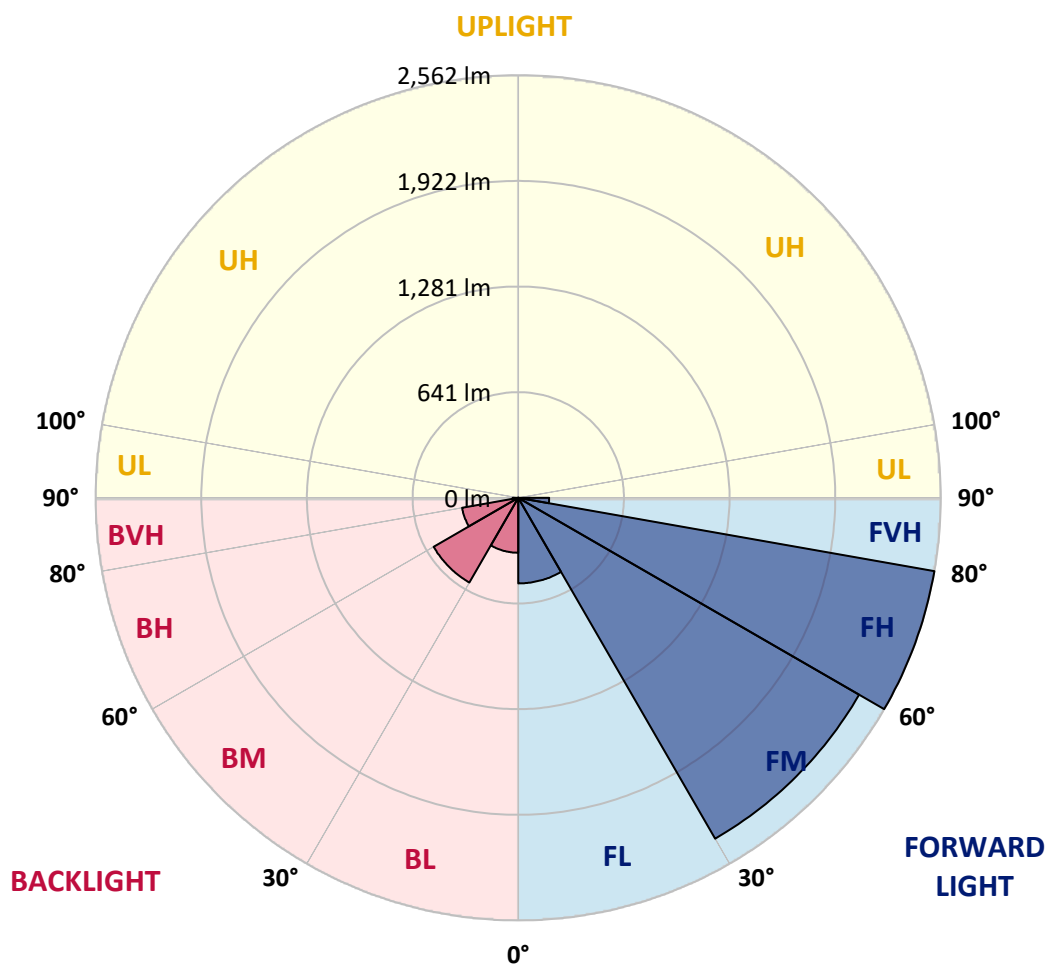
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	519.0	7.5			
FM	(30°-60°)	2386.4	34.3			
FH	(60°-80°)	2562.2	36.8			G2/5000
FVH	(80°-90°)	187.6	2.7			G2/225
BL	(0°-30°)	333.2	4.8	B1/500		
BM	(30°-60°)	592.6	8.5	B1/1000		
BH	(60°-80°)	345.9	5.0	B1/500		G1/500
BVH	(80°-90°)	33.9	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-G2

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1277.7	1277.7	1277.7	1277.7	1277.7	1277.7	1277.7	1277.7	1277.7	1277.7	1277.7
2.5°	1288.5	1284.0	1288.5	1286.6	1285.9	1284.3	1284.7	1287.4	1285.9	1287.7	1281.4
5°	1279.9	1277.3	1281.8	1280.6	1285.5	1286.3	1291.1	1294.1	1296.0	1296.3	1291.5
7.5°	1265.7	1263.0	1269.4	1274.7	1285.1	1288.1	1298.3	1303.1	1305.7	1310.3	1303.1
10°	1213.6	1212.5	1228.3	1248.0	1272.7	1288.1	1303.5	1311.7	1315.8	1327.8	1319.6
12.5°	1121.5	1123.0	1143.6	1181.8	1231.2	1280.6	1309.4	1321.4	1327.8	1342.7	1339.1
15°	1033.5	1033.1	1055.5	1096.4	1165.6	1247.6	1312.4	1333.0	1343.9	1366.0	1363.0
17.5°	982.6	981.0	996.8	1027.9	1092.2	1197.1	1304.9	1339.5	1362.6	1390.3	1387.7
20°	973.2	970.2	978.5	993.8	1039.5	1141.7	1285.5	1339.5	1377.6	1413.6	1412.0
22.5°	1007.3	1002.4	999.1	997.1	1017.4	1096.0	1263.4	1335.0	1399.7	1446.9	1444.2
25°	1075.8	1068.4	1051.1	1034.2	1028.3	1075.4	1243.9	1333.8	1432.6	1491.8	1482.0
27.5°	1186.6	1177.3	1142.5	1102.0	1065.7	1085.9	1235.3	1340.5	1469.0	1539.3	1519.9
30°	1324.1	1313.9	1270.2	1208.0	1142.9	1124.8	1246.2	1360.4	1515.5	1602.7	1564.5
32.5°	1447.3	1436.0	1398.6	1335.3	1247.3	1192.3	1280.6	1398.2	1588.4	1690.6	1631.5
35°	1556.6	1543.5	1509.8	1451.4	1375.3	1287.0	1342.7	1465.2	1692.2	1833.7	1722.5
37.5°	1663.7	1648.3	1611.6	1549.9	1496.7	1413.2	1428.5	1551.3	1829.9	2007.5	1843.1
40°	1783.5	1761.5	1716.9	1655.8	1604.1	1561.1	1541.3	1656.9	1970.0	2201.4	1993.6
42.5°	1899.6	1878.6	1825.4	1773.5	1708.7	1696.3	1672.0	1780.5	2123.2	2414.5	2146.4
45°	2024.7	1999.6	1935.2	1869.3	1828.5	1786.2	1798.5	1904.1	2273.3	2631.7	2306.7
47.5°	2141.8	2113.8	2037.8	1964.4	1942.0	1861.8	1914.6	2040.1	2429.5	2851.9	2465.4
50°	2205.2	2177.4	2114.2	2047.8	2030.3	1955.0	2040.4	2189.4	2593.0	3071.3	2617.8
52.5°	2258.0	2228.0	2145.2	2108.5	2103.3	2056.5	2195.4	2360.2	2756.7	3265.2	2764.9
55°	2314.1	2280.8	2175.2	2142.2	2166.2	2170.3	2379.2	2553.8	2929.8	3454.4	2903.9
57.5°	2378.9	2336.6	2204.1	2170.7	2227.6	2303.7	2590.5	2754.5	3099.7	3629.5	3027.4
60°	2439.9	2397.3	2259.4	2216.0	2294.0	2458.3	2832.7	2997.5	3292.2	3785.7	3144.3
62.5°	2451.9	2416.7	2303.7	2303.3	2383.7	2638.8	3119.6	3242.8	3460.3	3940.0	3249.1
65°	2244.4	2222.4	2155.4	2299.9	2512.6	2898.6	3439.0	3556.5	3674.1	4074.8	3341.3
67.5°	1708.3	1711.2	1706.4	1985.3	2408.4	3272.0	3901.5	3892.4	3938.2	4226.1	3447.2
70°	781.2	798.7	913.3	1370.5	1929.6	3315.1	4666.1	4549.6	4269.5	4422.0	3538.9
72.5°	422.0	435.5	482.3	663.9	1160.1	2947.3	5237.4	5320.3	4710.3	4553.8	3438.3
75°	309.7	317.1	349.7	422.0	487.2	2190.5	5032.6	5457.3	4765.3	4246.3	2969.0
77.5°	231.8	235.1	261.8	334.4	249.4	1154.8	4021.3	4519.6	4079.3	3488.8	2193.2
80°	168.1	171.9	191.7	250.9	174.9	422.4	2761.2	3172.4	2793.8	2223.8	1093.1
82.5°	116.0	117.6	126.2	170.8	122.1	164.0	1566.7	1860.3	1559.6	780.3	295.1
85°	70.0	71.9	75.6	99.6	69.3	77.9	676.3	699.5	466.2	186.4	91.7
87.5°	28.8	30.7	33.7	41.9	27.4	21.7	111.6	140.0	87.2	54.6	28.5
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°	1277.7	1277.7	1277.7	1277.7	1277.7	1277.7	1277.7	1277.7	1277.7	1277.7	1277.7
2.5°	1279.5	1276.8	1269.8	1260.0	1251.0	1239.8	1234.9	1230.8	1227.1	1220.0	1216.6
5°	1287.4	1280.2	1261.2	1236.5	1208.4	1177.6	1147.7	1127.1	1109.5	1096.4	1085.6
7.5°	1299.4	1285.9	1251.0	1200.5	1136.1	1070.2	1010.6	968.3	936.5	924.9	904.7
10°	1311.7	1295.6	1234.9	1145.8	1034.6	933.2	854.1	810.7	785.3	776.9	764.2
12.5°	1326.4	1302.7	1209.8	1069.8	921.2	810.0	741.1	715.6	702.4	698.0	699.2
15°	1347.7	1308.7	1172.1	974.7	812.9	720.1	675.5	657.9	651.2	650.8	652.3
17.5°	1363.8	1309.8	1113.3	872.9	729.8	665.7	629.0	622.4	626.8	633.6	636.2
20°	1381.7	1299.7	1036.1	780.0	671.4	618.2	602.9	607.3	618.2	627.9	631.3
22.5°	1394.5	1281.4	942.9	707.8	620.8	590.9	590.1	599.5	605.5	610.4	612.9
25°	1405.7	1250.3	844.0	647.1	579.3	574.4	582.6	579.6	575.5	579.6	582.3
27.5°	1413.9	1201.2	755.6	593.9	550.1	563.1	558.3	551.6	551.2	553.4	557.2
30°	1411.3	1135.7	683.0	543.4	529.5	542.2	530.6	529.5	528.4	529.5	533.6
32.5°	1411.3	1061.2	627.2	508.5	516.4	511.5	510.3	507.8	503.3	502.9	507.8
35°	1419.2	986.7	579.3	489.7	505.5	493.9	494.7	488.3	478.9	474.5	478.9
37.5°	1435.3	926.8	531.8	480.8	486.5	486.1	483.1	472.2	455.7	441.5	446.4
40°	1474.3	909.2	499.2	476.7	477.4	482.0	474.1	453.0	415.6	392.5	395.4
42.5°	1535.2	938.8	492.0	466.6	471.4	475.9	460.5	411.9	385.3	371.5	371.5
45°	1612.7	990.5	507.4	451.9	457.3	465.0	419.4	396.2	384.2	384.6	386.4
47.5°	1710.8	1044.7	535.9	439.2	436.6	441.1	392.1	377.8	361.3	365.5	376.0
50°	1824.3	1099.7	562.8	422.0	413.8	399.1	374.4	361.0	340.0	330.3	332.9
52.5°	1947.2	1152.9	573.7	401.1	389.1	372.2	362.4	346.0	320.5	304.4	304.0
55°	2063.6	1201.2	561.7	376.0	364.4	351.3	349.7	339.6	312.3	289.9	289.9
57.5°	2173.7	1241.7	531.8	350.4	339.3	331.4	341.5	336.6	302.2	273.4	271.8
60°	2266.9	1269.4	488.3	324.6	316.8	312.6	328.0	326.6	287.9	255.7	254.6
62.5°	2341.1	1280.2	440.3	299.9	298.1	290.6	309.3	309.3	270.0	238.5	237.4
65°	2399.1	1269.8	391.7	275.6	279.3	268.1	286.5	284.2	250.9	223.1	221.7
67.5°	2450.5	1235.3	337.7	251.6	260.2	246.0	262.5	257.3	229.9	207.9	206.3
70°	2473.2	1155.2	276.3	227.7	238.1	224.3	238.5	228.8	206.3	191.4	188.4
72.5°	2289.7	960.1	217.6	202.5	211.6	200.3	212.7	201.4	180.8	174.1	168.5
75°	1894.4	720.5	167.4	175.3	181.9	173.3	181.6	173.3	154.7	159.5	145.7
77.5°	1375.8	486.5	128.0	146.4	149.4	144.9	152.0	142.7	125.8	124.7	119.1
80°	684.1	285.0	100.3	115.7	114.6	111.6	119.8	115.3	101.1	107.1	106.0
82.5°	198.1	122.1	73.0	81.3	79.0	79.7	85.8	88.0	131.8	130.7	133.7
85°	62.1	48.0	43.8	45.3	43.0	44.2	50.5	100.3	92.9	54.3	58.8
87.5°	16.1	16.5	10.9	11.6	12.0	14.2	16.1	61.0	29.2	19.1	20.2
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)